

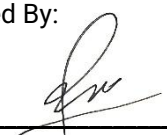
	    CERTIFICATE 2518.08 SMM 825
MOTOROLA PENANG ADV. COMM. LABORATORY Motorola Solutions Malaysia Sdn. Bhd. Plot 2A Medan Bayan Lepas, Mukim 12, S.W.D. 11900 Bayan Lepas, Penang, Malaysia.	FCC / ISED TEST REPORT Report Revision : Rev.A
Date/s Tested : 03-February-2026 - 30-March-2026 Report Issue Date : 23-April-2026 Test Location : MOTOROLA PENANG ADV. COMM. LABORATORY Manufacturer/Location : Motorola Solutions Malaysia Sdn Bhd Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900, Bayan Lepas, Penang, Malaysia Requestor : Ooi VernYin Product Type : Portable Product Marketing Name (PMN) : TLK200 Hardware Version Identification Number (HVIN) : HK2300A Frequency Band : 2.412-2.462 GHz Max RF Output Power : 802.11b - 63.1 mWatts 802.11g - 100 mWatts 802.11n(HT20) - 100 mWatts 802.11n(HT40) - 141.25 mWatts Applicant Name : Motorola Solutions Inc Applicant Address : Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia FCC Registrations : 461337 ISED Registration : 109AK Firmware Version Identification Number (FVIN) : D01.00.01 (BP), D01.06.08 (AP) The equipment was tested accordance to the requirement listed below: (2.4GHz Wifi) PASS 47CFR Part 15C ISED RSS 247 Issue 4	
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REVISION HISTORY

Revision History	Description	Date	Originator
Rev. A	Initial Report	23-April-2026	Azim

1.0. General Information

EUT Description:

Technologies	2.4GHz Wi-Fi
TX Frequency range	2412MHz – 2462MHz
Modulation Type	CCK, OFDM
Connector type	PROGRAMMING, TEST & ALIGNMENT CABLE
Antenna type	Fixed Chip

Note: The description and information regarding the EUT are provided by the customer. The laboratory shall not be held responsible for any inaccuracies or misinformation in the provided details that may result in incorrect test outcomes.

1.1. Channel number and frequency information:

There are two bandwidth systems.

For 20MHz Bandwidth systems (802.11b, 802.11g, 802.11n), use channel 1 ~ channel 11

For 40MHz Bandwidth systems (802.11n), use channel 3 ~ channel 9

802.11b,g,n

Mode	802.11b			802.11g			802.11n			802.11n		
Channel	1	6	11	1	6	11	1	6	11	3	6	9
Resource Unit	NA			NA			NA			NA		
Frequency	2412	2437	2462	2412	2437	2462	2412	2437	2462	2422	2437	2452
Bandwidth	20 MHz			20MHz			20MHz			40Mhz		

802.11ax

Mode	802.11ax			802.11ax (RU26)			802.11ax		
Channel	1	6	11	1	6	11	3	6	9
Resource Unit	Full RU			0,4,8			Full RU		
Frequency	2412	2437	2462	2412	2437	2462	2422	2437	2452
Bandwidth	20 MHz			20MHz			40MHz		

The EUT contains following accessory devices and data cable:

Item	Brand	Model or P/N
BATTERY PACK,BATTERY PACK, BATT LIION 2500T	MOTOROLA	PMNN4578A
CHGR DESKTOP MULTI UNIT, INT PS US/NA	MOTOROLA	PMLN8569A
CABLE, ASSEMBLY,USB-C TO USB-A	MOTOROLA	PMKN4294A
STUBBY ANTENNA	MOTOROLA	AN000508A01

General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, the EUT is to comply with the requirements of the following standards:

FCC 47 CFR Part 15 Subpart C

KDB 558074 D01 15.247 Meas Guidance v05

ANSI C63.10-2020+Cor.1-2023+C63.10a-2024 + Errata to C63.10a-2024

Deviation from standard

Not applicable as no deviation from standard test method

Modifications to EUT

For RF conducted measurements a pigtail was soldered out of the board while for radiated measurements there were no modifications to the device

2.0. Summary of Test Results

FCC Clause	IC Clause	Test Item	Result	Remark	Serial number tested	Tested by
15.247 (a)(2)	RSS-247 5.2(a)	DTS & 99% Channel Bandwidth	Pass	Highest 99% OCB: 802.11b: 13.737MHz (13M7G1D) 802.11g: 16.850MHz (16M9D1D) 802.11n(HT20): 17.988MHz (18M0D1D) 802.11n(HT40): 36.382MHz (36M4D1D)	64222BY0209	Azim
15.247 (b)(3)	RSS-247 5.4(d)	Conducted RF Output Power (Peak)	Pass	Highest output power: 802.11b: 16.74 dBm (47.15 mW) 802.11g: 18.74 dBm (74.73 mW) 802.11n(HT20): 18.74 dBm (74.73 mW) 802.11n(HT40): 20.23 dBm (105.32 mW)	64222BY0209	Azim
15.247(e)	RSS-247 5.2(b)	Maximum Power Spectral Density	Pass	Meet the limit requirement.	64222BY0209	Azim
15.247(d)	RSS-247 5.5	Conducted Spurious Emissions	Pass	Worst case emission: -42.80 dBm	64222BY0209	Azim
15.247 (d)	RSS-247 5.5	Band edge Conducted Spurious Emission	Pass	Worst case emission: -24.49 dBm	64222BY0209	Azim
15.205, 15.209, 15.247 (d)	RSS-247 5.5	Radiated Emission within Restricted Bands	Pass	Worst case emission: RBE: 45.55dBuV/m (margin: 8.45dB) RSE: 21.48dBuV/m (margin: 24.52dB)	64222BY0124	Nazrin & Fuad
15.207	RSS-Gen 8.8	AC Power Line Conducted Emission	Pass	Meet the limit requirement.	64222BY0124	Shidee
15.203		Antenna requirement	NA	Internal antenna is not accessible to the end-user	NA	NA

NA → Not Available

3.0. Measurement Uncertainty

The measurement uncertainties below were calculated using approach describe in ETSI TR 100 028, ETSI TR 100 028-2 (using a coverage factor of $k = 1.96$) & CISPR 16-4-2 (using a coverage factor of $k=2$), which gives a level of confidence of approximately 95%.

According to CISPR 16-4-2, the levels were found to be below levels of U_{CISPR} and therefore no adjustment of the data for measurement uncertainty is required.

ETSI TR 100 028 & ETSI TR 100 028-2:

MEASUREMENT TYPE	FREQUENCY RANGE	EXPANDED UNCERTAINTY
Conducted Spurious Output Power	9kHz-12750MHz	± 2.82 dB

CISPR 16-4-2:

MEASUREMENT TYPE	FREQUENCY RANGE	EXPANDED UNCERTAINTY
AC Power-line Conducted Emissions	150kHz-30MHz	± 3.44 dB
Radiated Emissions	30MHz-1000MHz	± 6.00 dB
Radiated Emissions	1000MHz-18000MHz	± 5.14 dB
Radiated Emissions	18000MHz-40000MHz	± 5.36 dB

4.0. Equipment List

Bluetooth ATE # 1 (SW Version: Ate Main_3.2.2)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
CHAMBER	SH-641	92003820	9-Jul-25	9-Jul-26
POWER SUPPLY	6652A	MY40001438	27-Aug-25	27-Aug-26
PULSE SENSOR	MA2411B	1726287	10-Sep-25	10-Sep-26
PULSE POWER METER	ML2495A	1845014	9-Sep-25	9-Sep-26
SPECTRUM ANALYZER	E4440A	MY46185415	15-Jan-25	15-Jul-26

Radiated Emission Station (SW Version: EMC FCC RE v1.8.1)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
DRG HORN FREQ.	SAS-571	719	31-Oct-25	31-Oct-26
DRG HORN FREQ.	SAS-571	1027	21-Jul-25	21-Jul-26
DC Power Supply	N7977A	MY54420118	16-Apr-25	16-Apr-26
SIGNAL GENERATOR	SMB 100A	180683	20-Dec-24	20-Dec-27
EMI TEST RECEIVER	ESW44	101731	11-Aug-25	10-Aug-26
5m SEMI-ANECHOIC CHAMBER	S800-HX	J2308	Not Required	Not Required
BILOG ANTENNA	CBL 6112D	55546	30-Jun-25	30-Jun-26
BILOG ANTENNA	CBL6112B	2964	06-Nov-25	06-Nov-26
DATA LOGGER THERMOHYGROMETER	SDL500	A.016785	16-Jul-25	16-Jul-26
SYSTEM CONTROLLER	SC104V	050806-1	Not Required	Not Required
TURNTABLE FLUSH MOUNT 2M	FM2011	FM2011-001	Not Required	Not Required
ANTENNA POSITIONING TOWER	TLT2	090308-5	Not Required	Not Required
BROAD-BAND HORN ANTENNA	BBHA9170	BBHA9170255	02-Apr-25	02-Apr-26
PREAMPLIFIER 18-40GHz	JS44-18004000-33-8P	2034566	Not Required	Not Required
PREAMPLIFIER 1-18GHz	EMC0518A45SE	981005	19-Sep-25	18-Sep-26
WIDEBAND RADIO COMMUNICATION TESTER	CMW500	153174	11-Jul-25	11-Jul-26
UXM 5G WIRELESS TEST PLATFORM	E7515B	MY22214199	02-Apr-25	02-Apr-26
PREAMPLIFIER	PAM-0118P	361	29-Sep-23	29-Sep-26
LOOP ANTENNA	6502	00203479	02-Apr-25	02-Apr-26

AC Powerline Station (SW Version: EMC32 Ver.10.60.10)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
DATA LOGGER	DSB	16344143	16-Jul-2025	16-Jul-2026
V-NETWORK 2-LINE	ENV216	101268	30-Jun-2025	30-Jun-2026
EMI TEST RECEIVER	ESCI 3	100225	4-Sep-2025	4-Sep-2026
PROGRAMMABLE AC SOURCE	61604	ABR000000926	20-Aug-2025	20-Aug-2026
DATA LOGGER	DSB	16344143	16-Jul-2025	16-Jul-2026

Note: Performed test site validation in accordance with ANSI C63.4-2014+C63.4a-2017 (30 MHz - 1 GHz) and CISPR 16-1-4 (1 GHz - 18 GHz) annually but no less than once every 3 years.

5.0. Test Mode Applicability and Test Channel Detail

The device employs MIMO technology. Below are the possible configurations.

WLAN Configurations		Mode					
		SISO		Spatial Diversity Multiplexing (MIMO)		Cyclic Delay Diversity (MIMO)	
	Antenna	Primary	Secondary	Primary	Secondary	Primary	Secondary
2.4GHz	802.11b	√	√	x	x	x	x
	802.11g	√	√	x	x	x	x
	802.11n (HT20)	√	√	x	x	x	x
	802.11n (HT40)	√	√	x	x	x	x
	802.11ax (HE20)	x	x	x	x	x	x
	802.11ax (HE40)	x	x	x	x	x	x
	802.11ax (HE40)	x	x	x	x	x	x

√ = Support;
 x = NOT Support

Note: This Device supports simultaneous transmission operation, which allows for two SISO or two MIMO channels to operate independent of one another in the 2.4GHz band on each antenna. 802.11n mode is capable of transmitting simultaneously on two antennas using Cyclic Delay Diversity and Spatial Diversity Multiplexing (2x2 MIMO). The following tables show the worst case configurations determined during testing. The data for these configurations is contained in this test report.

Radiated Emission Test (Above 1GHz)

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Modulation	Available Channel	Tested Channel	Modulation Technology	Data Modulation Type	Date Rate (Mbps)	Mode	Environmental Conditions
Test Mode	802.11b	1 to 11	1,6,11	DSSS	QPSK	1	SISO	23.5°C, 68.9%RH
Test Mode	802.11g	1 to 11	1,6,11	OFDM	BPSK	6	SISO	23.5°C, 68.9%RH
Test Mode	802.11n (HT20)	1 to 11	1,6,11	OFDM	BPSK	6.5	SISO CDD (MIMO)	23.5°C, 68.9%RH
Test Mode	802.11n (HT40)	3 to 9	3,6,9	OFDM	BPSK	13.5	SISO CDD (MIMO)	23.5°C, 68.9%RH

Radiated Emission Test (Below 1GHz)

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Modulation	Available Channel	Tested Channel	Modulation Technology	Data Modulation Type	Date Rate (Mbps)	Mode	Environmental Conditions
Test Mode	802.11b	1 to 11	1,6,11	DSSS	QPSK	1	SISO	23.5°C, 68.9%RH
Test Mode	802.11g	1 to 11	1,6,11	OFDM	BPSK	6	SISO	23.5°C, 68.9%RH
Test Mode	802.11n (HT20)	1 to 11	1,6,11	OFDM	BPSK	6.5	SISO CDD (MIMO)	23.5°C, 68.9%RH
Test Mode	802.11n (HT40)	3 to 9	3,6,9	OFDM	BPSK	13.5	SISO CDD (MIMO)	23.5°C, 68.9%RH

Power Line Conducted Emission Test

☐ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☐ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Modulation	Available Channel	Tested Channel	Modulation Technology	Data Modulation Type	Data Rate (Mbps)	Environmental Conditions
Application Mode	802.11bgn mixed	1 to 11	AUTO	DSSS, OFDM	AUTO	AUTO	21.9°C, 56.2%RH

Antenna Port Conducted Measurement:

☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Modulation	Available Channel	Tested Channel	Modulation Technology	Data Modulation Type	Data Rate (Mbps)	Mode	Environmental Conditions
Test Mode	802.11b	1 to 11	1,6,11	CCK	QPSK	5.5	SISO	25°C, 54.8%RH
Test Mode	802.11g	1 to 11	1,6,11	OFDM	BPSK	6	SISO	25°C, 54.8%RH
Test Mode	802.11n (HT20)	1 to 11	1,6,11	OFDM	BPSK	6.5	SISO CDD (MIMO)	25°C, 54.8%RH
Test Mode	802.11n (HT40)	1 to 11	3,6,9	OFDM	BPSK	13.5	SISO CDD (MIMO)	25°C, 54.8%RH

Duty Cycle of Test Signal

802.11b, 802.11g and 802.11n : Duty cycle of test signal is $\geq 98\%$. (Refer to Clause 6.3 for duty cycle test signal)

Final Reported Test Results

The final reported test results are calculated using the following equation:

Reported RF Measurement Results = Measured Measurement Results + Correction Factor

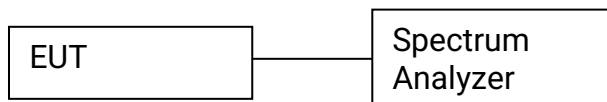
Where:

- Measured Measurement Results is the measured test results
- Correction Factor is the cumulative loss of all cables used during measurement, including temporary RF connector and antenna gain.

6.0. Transmitter Test Parameters

6.1. 6dB Channel Bandwidth

6.1.1. Test Setup



- a) Check and ensure the spectrum analyzer well calibrate.
- b) Turn on the DUT and set DUT to transmit maximum power.
- c) Connect DUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer :
 - a. RBW = 100 kHz
 - b. VBW = 300 kHz
 - c. Detector mode = Peak
 - d. Trace = Max hold
 - e. Sweep = auto
- e) Measure the freq different of two frequencies that were attenuated 6dB from peak of the emission & record the frequency difference as the emission bandwidth.
- f) Measure every antenna port by repeat the step above for MIMO measurement.

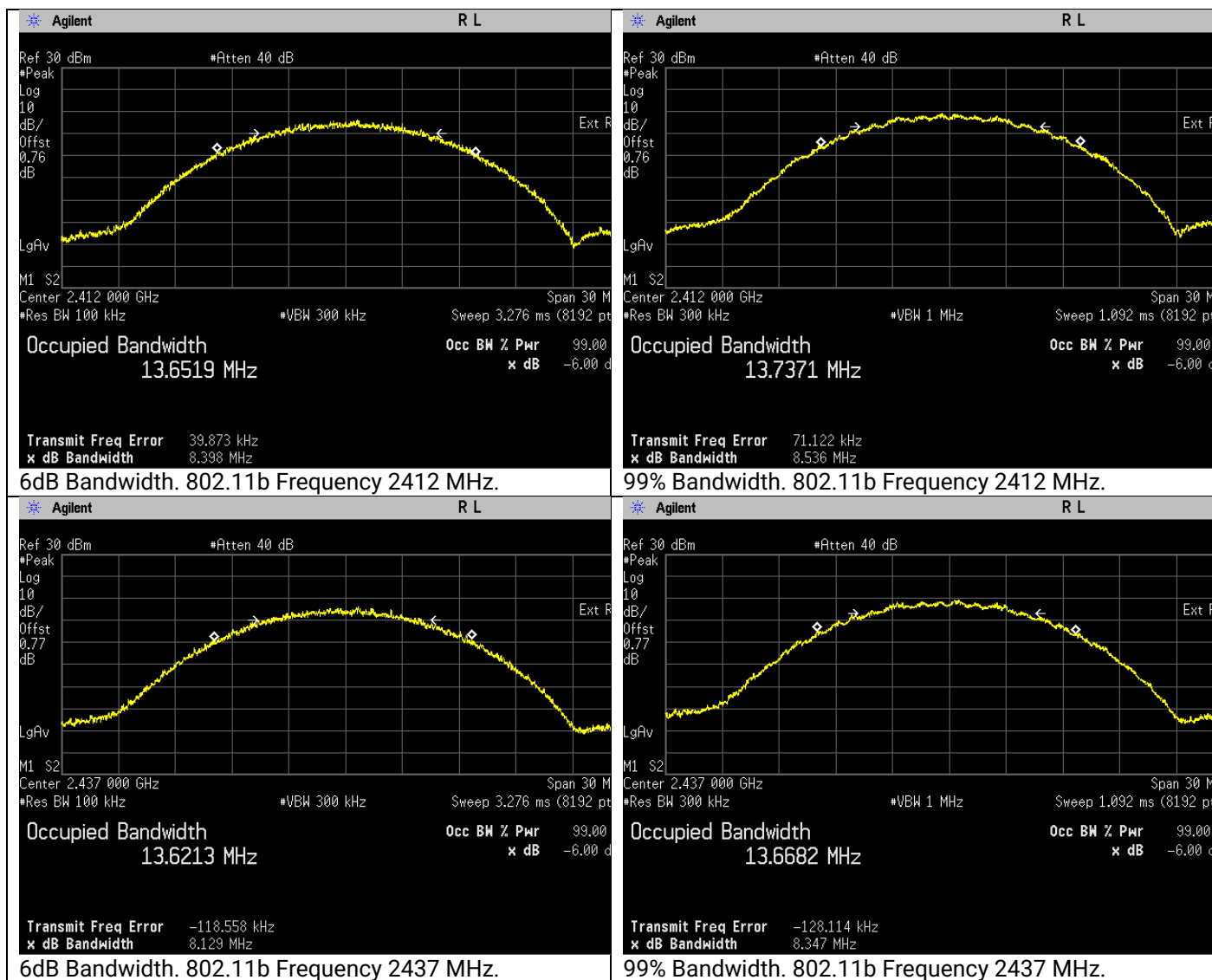
6.1.2. Test Limits:

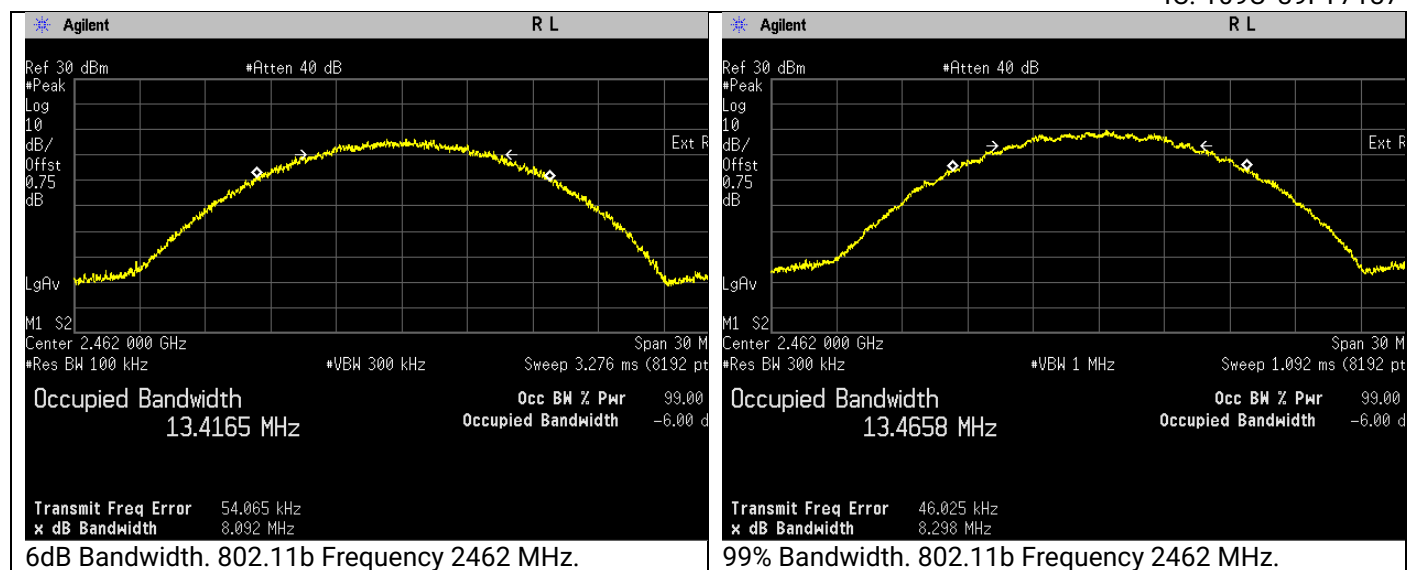
Normal Condition (25 ° C)
≥500 kHz

6.1.3. Test Data:

802.11 b

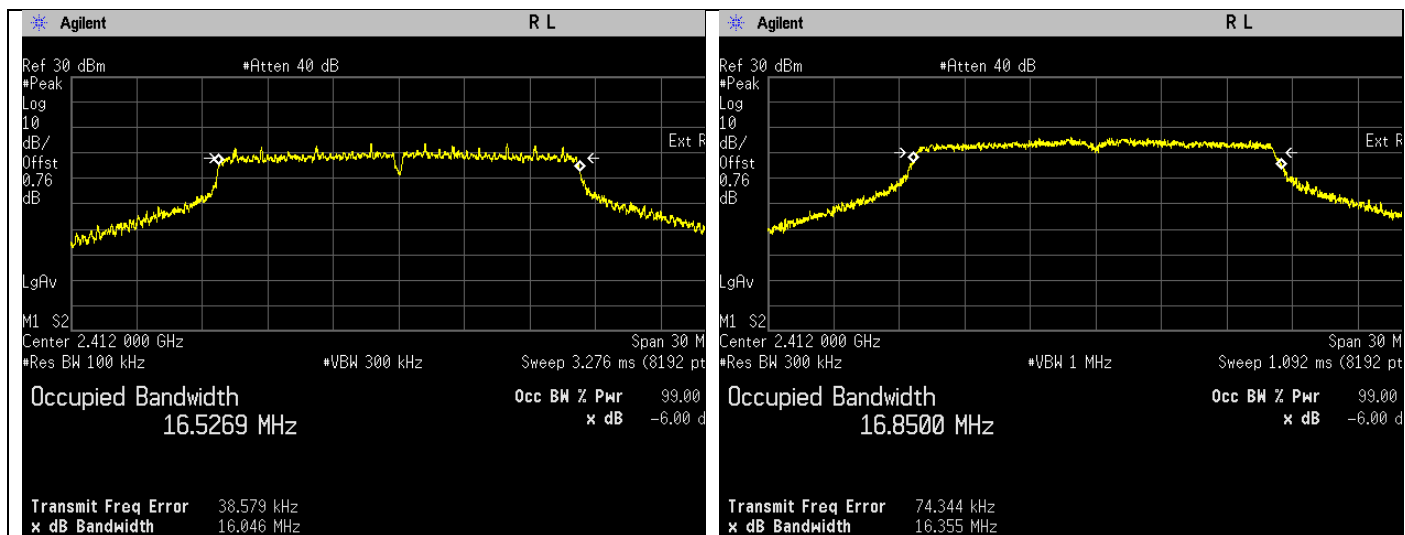
Test Conditions				Test Frequency	Results		
Standard	Modulation Type	Modulation Technology	Data Rate (mbps)	Tx (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Status
802.11b	OFDM	BPSK	5.5	2412	8.398	13.737	Pass
802.11b	OFDM	BPSK	5.5	2437	8.129	13.668	Pass
802.11b	OFDM	BPSK	5.5	2462	8.092	13.466	Pass





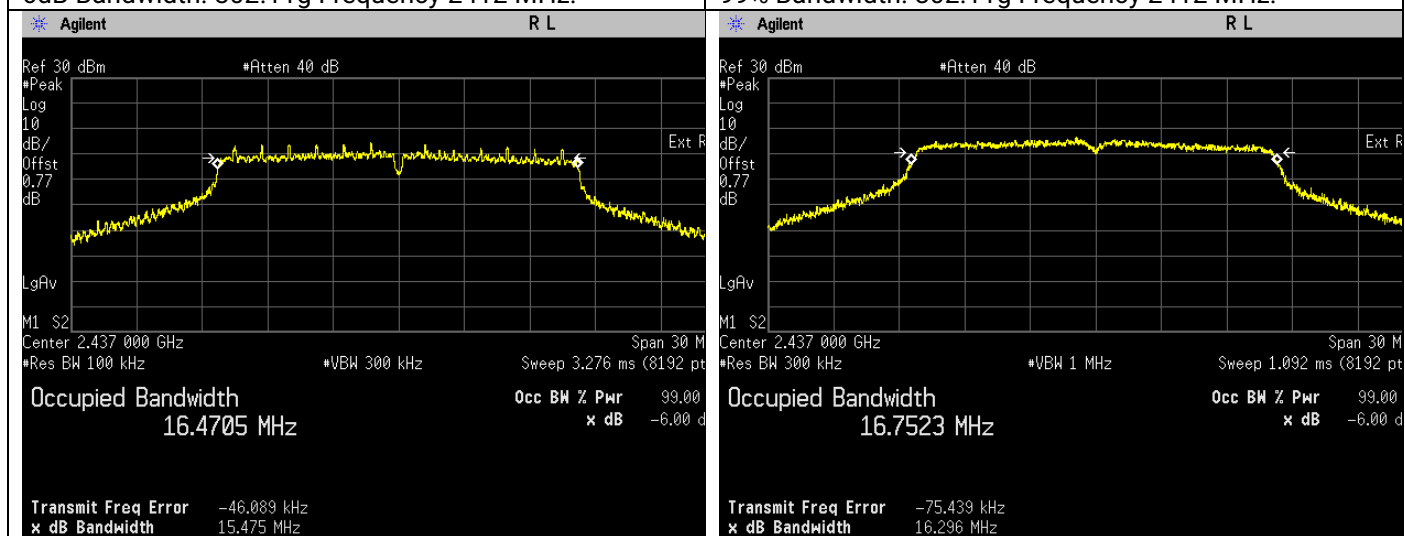
802.11 g

Test Conditions				Test Frequency	Results		
Standard	Modulation Type	Modulation Technology	Data Rate (mbps)	Tx (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Status
802.11g	OFDM	BPSK	6	2412	16.046	16.850	Pass
802.11g	OFDM	BPSK	6	2437	15.475	16.752	Pass
802.11g	OFDM	BPSK	6	2462	15.143	16.680	Pass



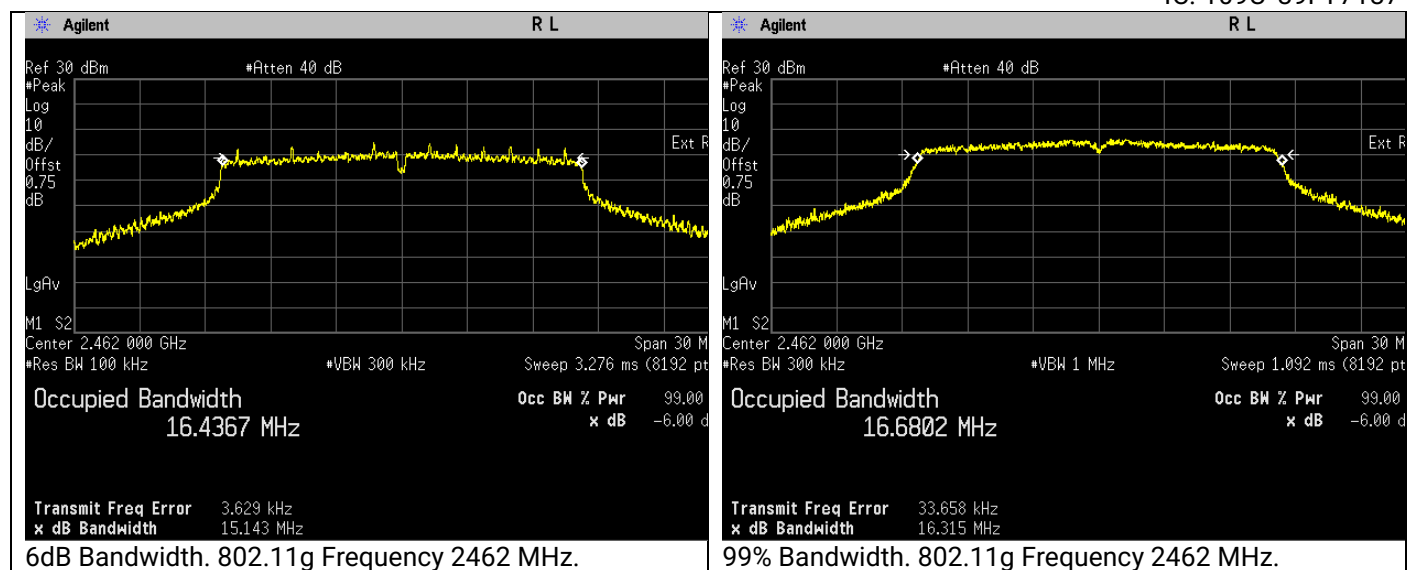
6dB Bandwidth. 802.11g Frequency 2412 MHz.

99% Bandwidth. 802.11g Frequency 2412 MHz.



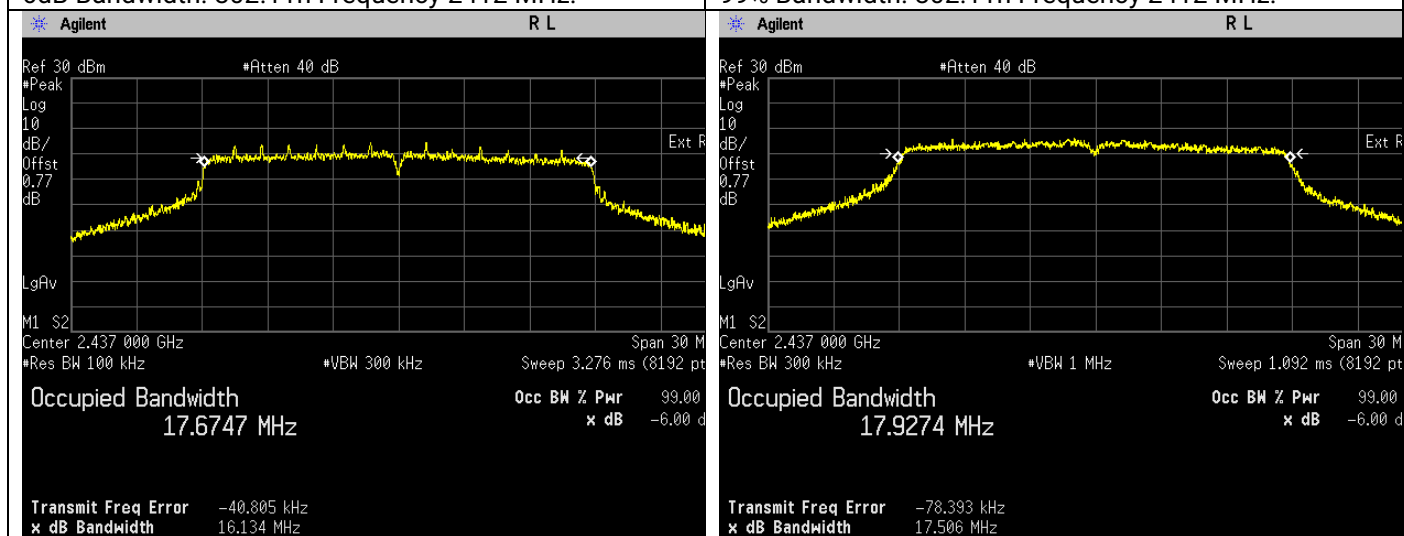
6dB Bandwidth. 802.11g Frequency 2437 MHz.

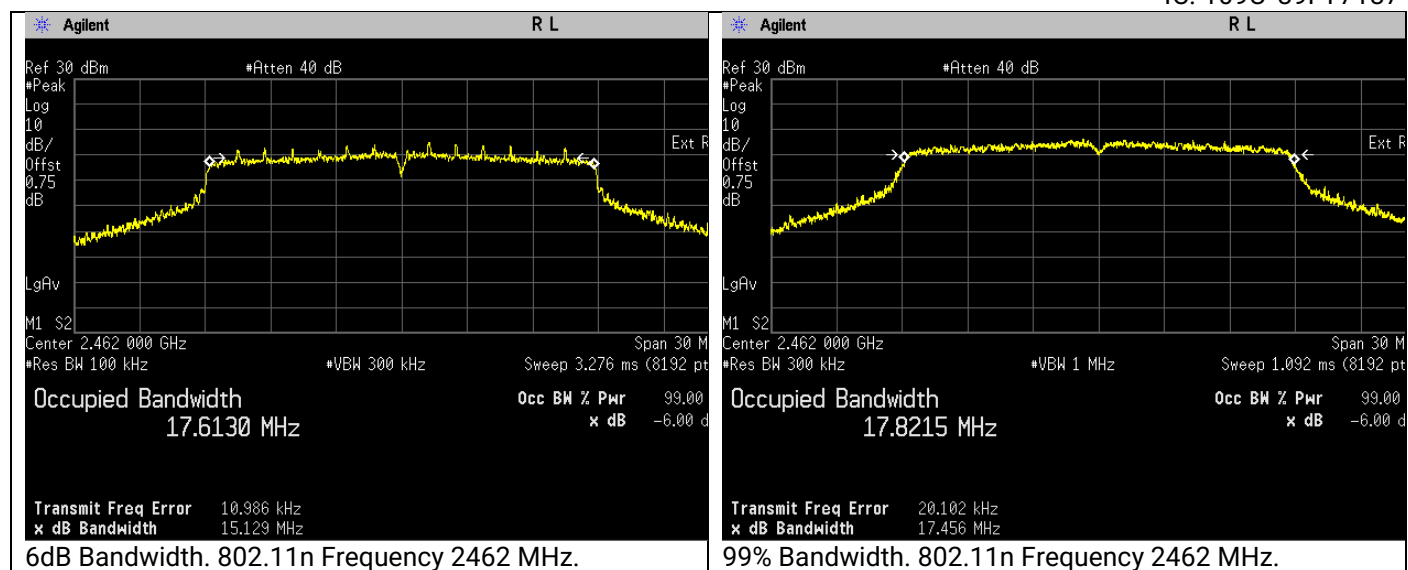
99% Bandwidth. 802.11g Frequency 2437 MHz.



802.11n (HT20)

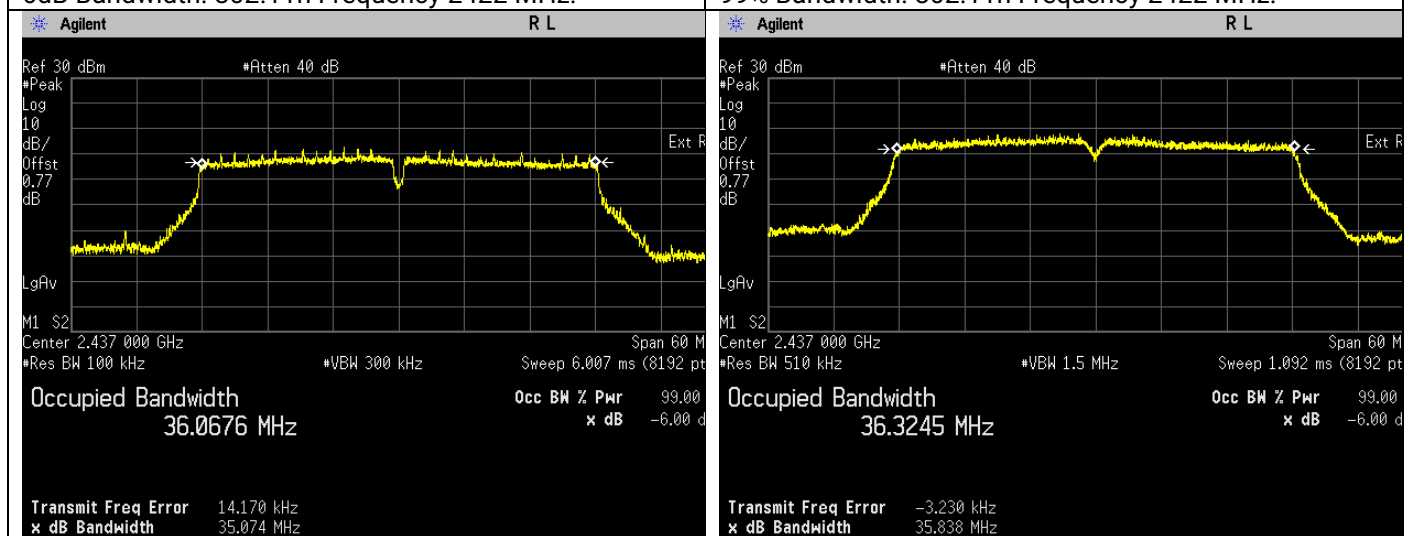
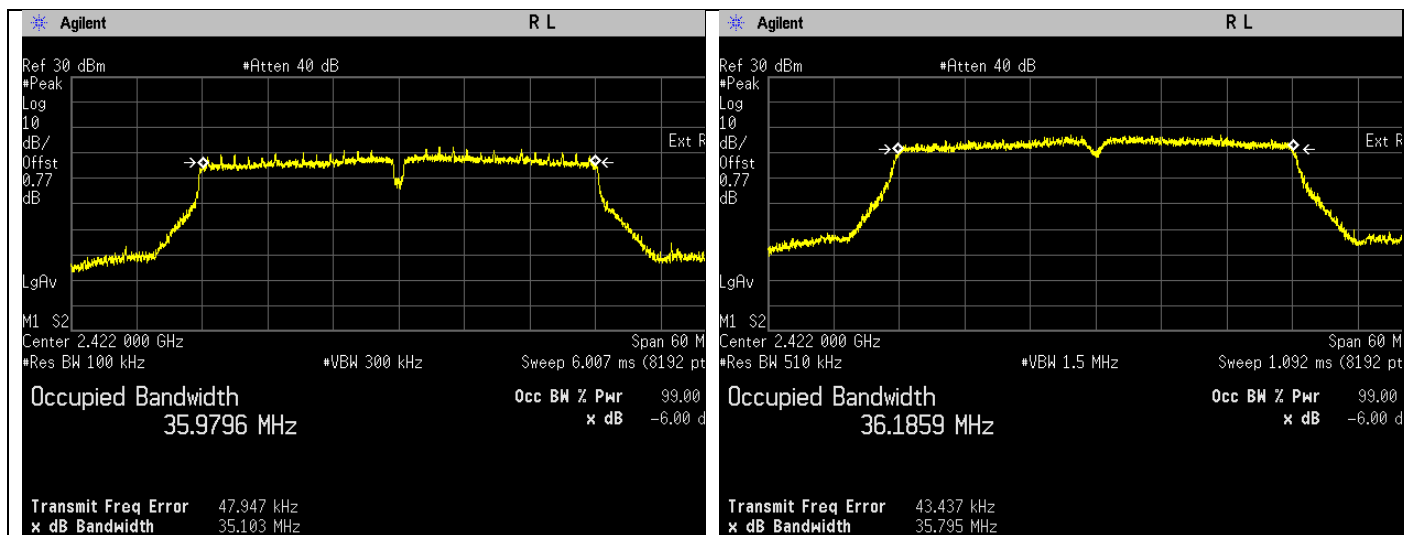
Test Conditions				Test Frequency	Results		
Standard	Modulation Type	Modulation Technology	Data Rate (mbps)	Tx (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Status
802.11n	OFDM	BPSK	6.5	2412	17.376	17.988	Pass
802.11n	OFDM	BPSK	6.5	2437	16.134	17.927	Pass
802.11n	OFDM	BPSK	6.5	2462	15.129	17.822	Pass

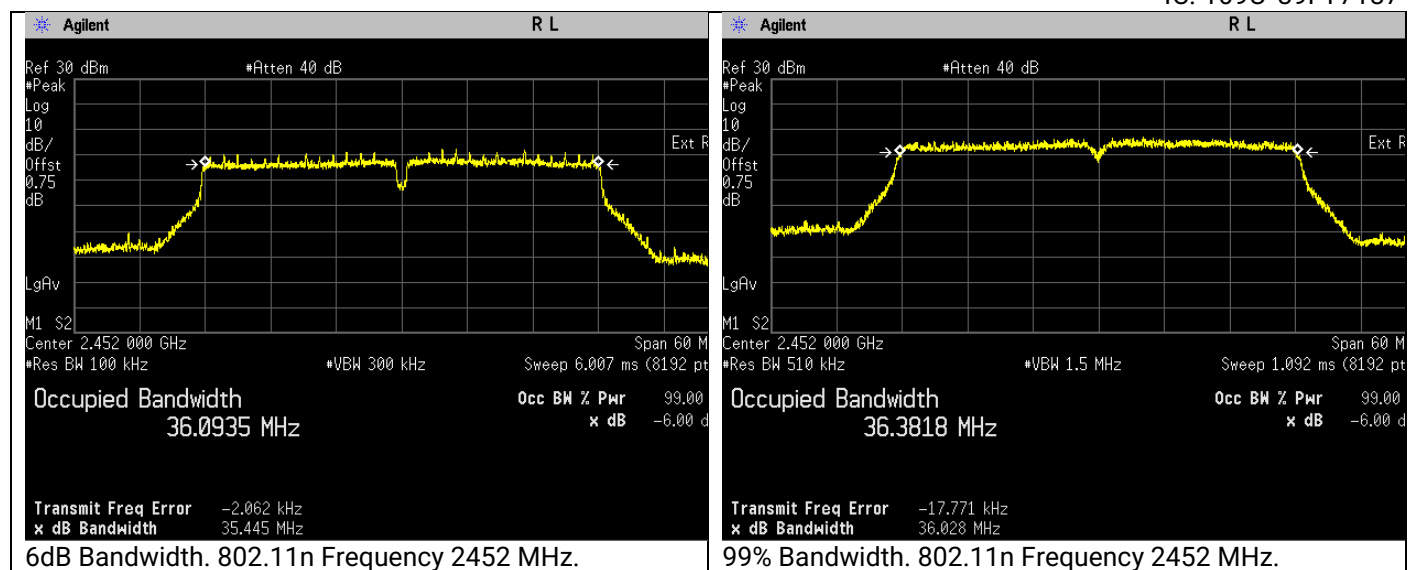




802.11n (HT40)

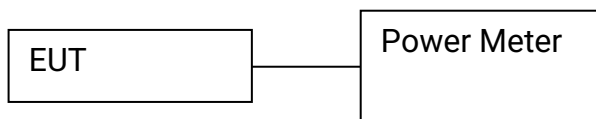
Test Conditions				Test Frequency	Results		
Standard	Modulation Type	Modulation Technology	Data Rate (mbps)	Tx (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Status
802.11n	OFDM	BPSK	13.5	2422	35.103	36.186	Pass
802.11n	OFDM	BPSK	13.5	2437	35.074	36.325	Pass
802.11n	OFDM	BPSK	13.5	2452	35.445	36.382	Pass





6.2. Conducted RF Output Power

6.2.1. Test Setup



Peak

- a) Set the following settings on the power meter:
 - a. Preset -> reset
 - b. Cal/Zero -> Zero & Cal
 - c. Preset -> 802.11g
 - d. Sensor -> Cal Factor -> Enter freq
 - e. Channel -> Trigger -> Trigger Source -> Internal, Rising Edge
 - f. Channel -> Trigger -> More -> Arming -> Automatic
 - g. Channel -> Averaging -> Averaging
 - h. Sensor -> offset -> fixed to couple for losses from ancillaries
 - i. Record peak data
- b) Key up DUT
- c) Restart averaging and read data once the numbers stabilize.
- d) Record power by reading peak data
- e) Repeat the steps in (1) (omit first 3 steps if done previously) by setting DUT to transmit at mid frequency and high frequency.

6.2.2. Test Limits:

Normal Condition (25 ° C)
≤1 Watt(30 dBm)

6.2.3. Test Data:

Test was conducted peak power.

802.11b

Test Conditions				Test Frequency	Results	
Standard	Modulation Type	Modulation Technology	Data Rate (mbps)	Tx (MHz)	Output Power (dBm)	Status
802.11b	DSSS	QPSK	5.5	2412	16.545	Pass
802.11b	DSSS	QPSK	5.5	2437	16.735	Pass
802.11b	DSSS	QPSK	5.5	2462	16.675	Pass

802.11g

Test Conditions				Test Frequency	Results	
Standard	Modulation Type	Modulation Technology	Data Rate (mbps)	Tx (MHz)	Output Power (dBm)	Status
802.11g	OFDM	BPSK	6	2412	18.575	Pass
802.11g	OFDM	BPSK	6	2437	18.735	Pass
802.11g	OFDM	BPSK	6	2462	18.565	Pass

802.11n (HT20)

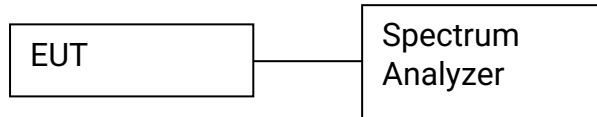
Test Conditions				Test Frequency	Results	
Standard	Modulation Type	Modulation Technology	Data Rate (mbps)	Tx (MHz)	Output Power (dBm)	Status
802.11n	OFDM	BPSK	6.5	2412	18.565	Pass
802.11n	OFDM	BPSK	6.5	2437	18.735	Pass
802.11n	OFDM	BPSK	6.5	2462	18.655	Pass

802.11n (HT40)

Test Conditions				Test Frequency	Results	
Standard	Modulation Type	Modulation Technology	Data Rate (mbps)	Tx (MHz)	Output Power (dBm)	Status
802.11n	OFDM	BPSK	13.5	2422	19.990	Pass
802.11n	OFDM	BPSK	13.5	2437	20.225	Pass
802.11n	OFDM	BPSK	13.5	2452	19.005	Pass

6.3. Duty Cycle of the test signal

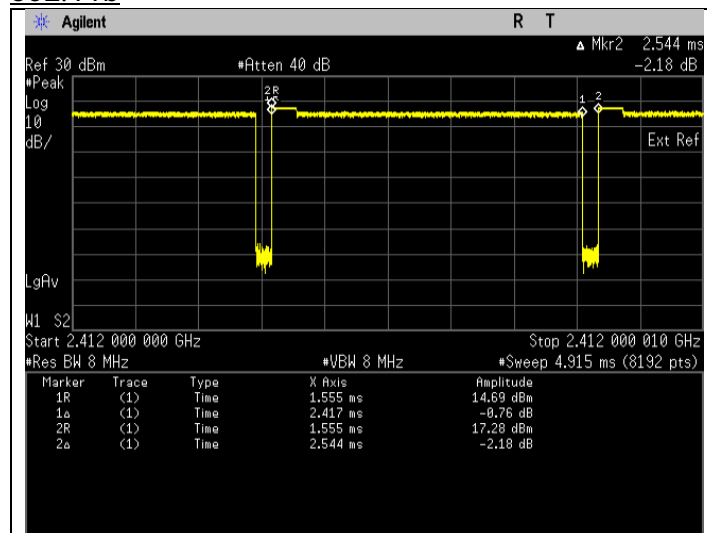
6.3.1. Test Setup



- 1) Check and ensure the spectrum analyzer well calibrate.
- 2) Turn on the DUT and set DUT to transmit maximum power.
- 3) Connect DUT's antenna terminal to spectrum analyzer with a low loss cable.
- 4) Setting of Spectrum analyzer :
 - a. Set the RBW = 10 MHz or the highest RBW available on spectrum analyzer.
 - b. Set the VBW $\geq$ RBW.
 - c. Set the span $\geq [1.5 \times \text{DTS bandwidth}]$.
 - d. Detector = Peak.
 - e. Sweep time = 10ms or others that allow to measure accurate duty cycle.
 - f. Trace mode = max hold.
 - g. Allow trace to fully stabilize.
- 5) Record the duty cycle as X and save the plot.
- 6) Measure every antenna port by repeat the step above for MIMO measurement.

6.3.2. Test Data

802.11b



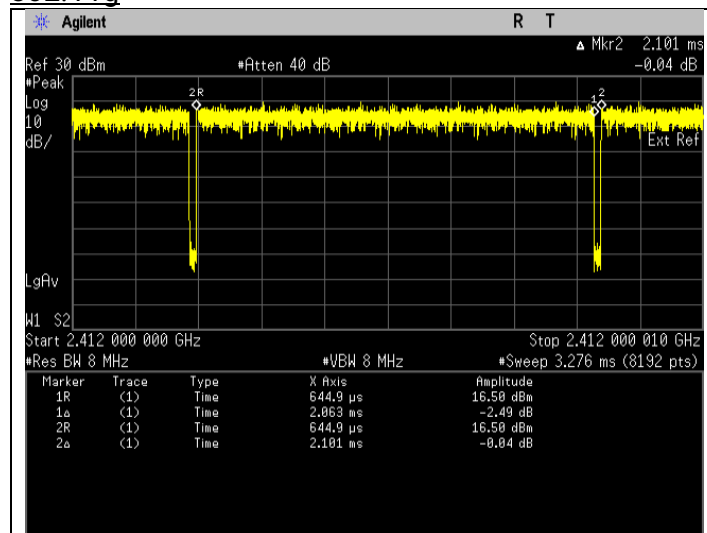
Duty Cycle

On time (ms)	2.417
On + Off Time (ms)	2.544
Duty cycle	0.9501
Duty Cycle factor	0.222

*Duty cycle = On time/ On +off time

*Duty Cycle factor = 10*log(1/Duty Cycle)

802.11g



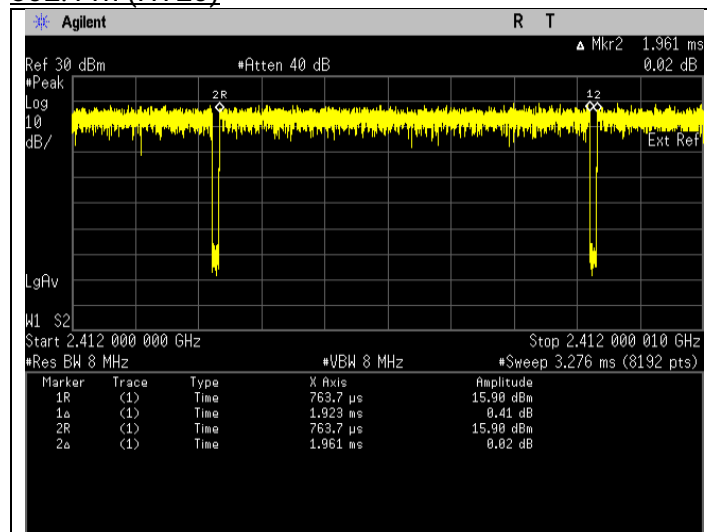
Duty Cycle

On time (ms)	2.063
On + Off Time (ms)	2.101
Duty cycle	0.9819
Duty Cycle factor	0.079

*Duty cycle = On time/ On +off time

*Duty Cycle factor = 10*log(1/Duty Cycle)

802.11n (HT20)



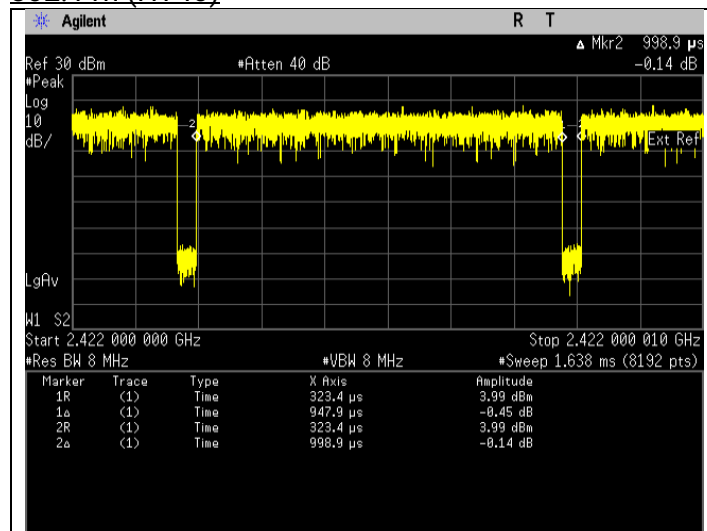
Duty Cycle

On time (ms)	1.923
On + Off Time (ms)	1.961
Duty cycle	0.9806
Duty Cycle factor	0.085

*Duty cycle = On time/ On +off time

*Duty Cycle factor = $10 \cdot \log(1/\text{Duty Cycle})$

802.11n (HT40)



Duty Cycle

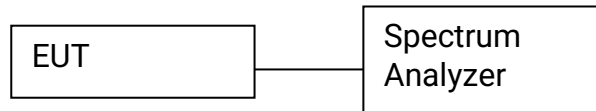
On time (ms)	0.9479
On + Off Time (ms)	0.9989
Duty cycle	0.9489
Duty Cycle factor	0.228

*Duty cycle = On time/ On +off time

*Duty Cycle factor = $10 \cdot \log(1/\text{Duty Cycle})$

6.4. Maximum Peak Power Spectral Density

6.4.1. Test Setup



Maximum Peak

- a) Check and ensure the spectrum analyzer well calibrate.
- b) Turn on the DUT and set DUT to transmit maximum power.
- c) Connect DUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer :
 - a. Set analyzer center frequency to DTS channel center frequency.
 - b. Set the span to 1.5 times the DTS bandwidth.
 - c. Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
 - d. Set the VBW $\geq [3 \times \text{RBW}]$.
 - e. Detector = peak.
 - f. Sweep time = auto couple.
 - g. Trace mode = max hold.
 - h. Allow trace to fully stabilize.
 - i. Use the peak marker function to determine the maximum amplitude level within the RBW.
 - j. If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.
- e) Measure every antenna port by repeat the step above for MIMO measurement.

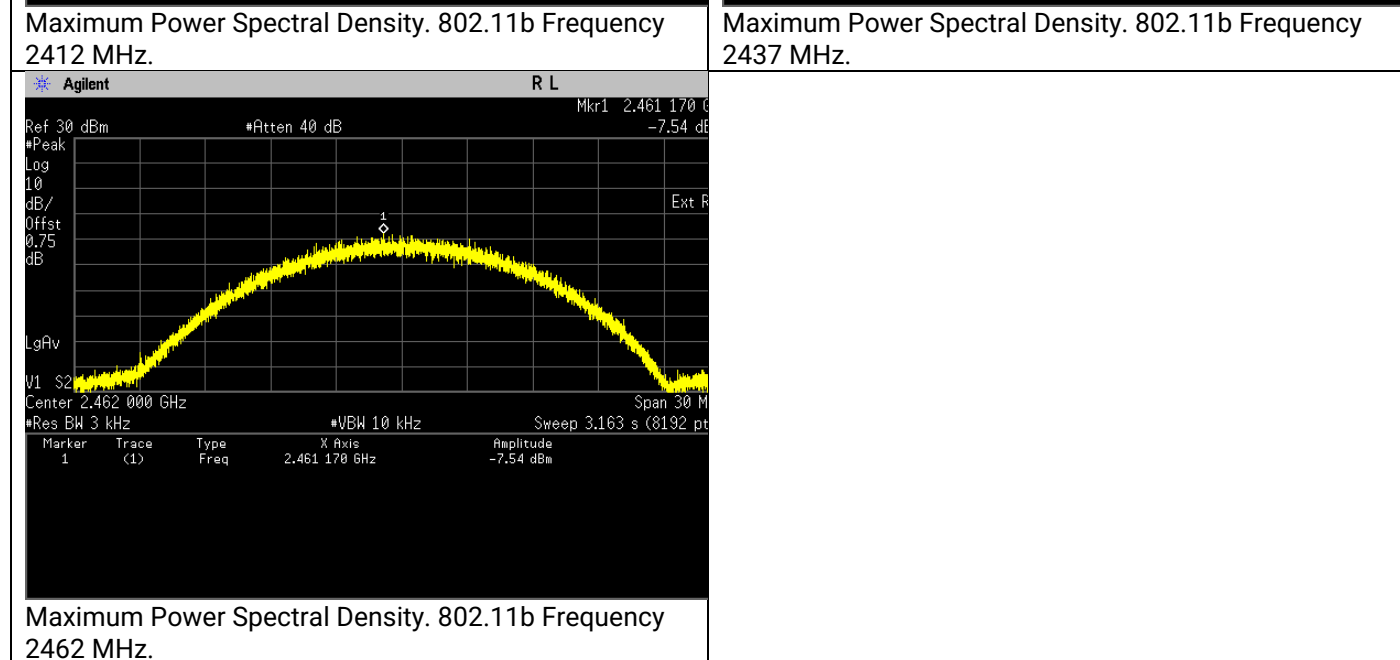
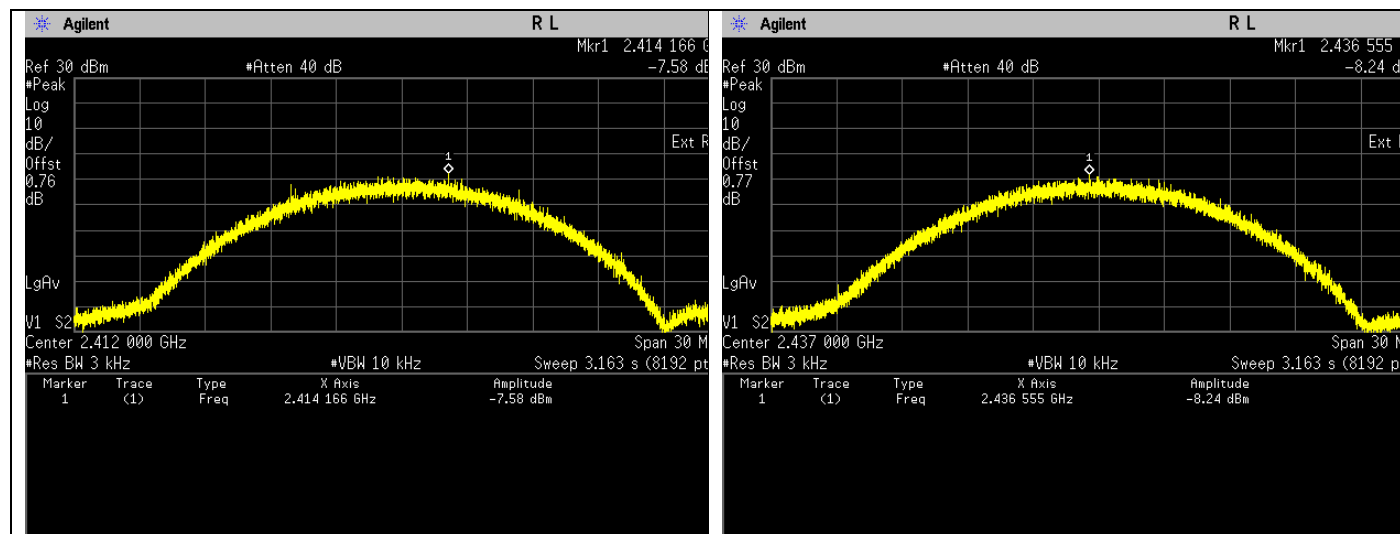
6.4.2. Test Limits

Normal Condition (25 ° C)
$\leq 8 \text{ dBm/3kHz}$

6.4.3. Test Result

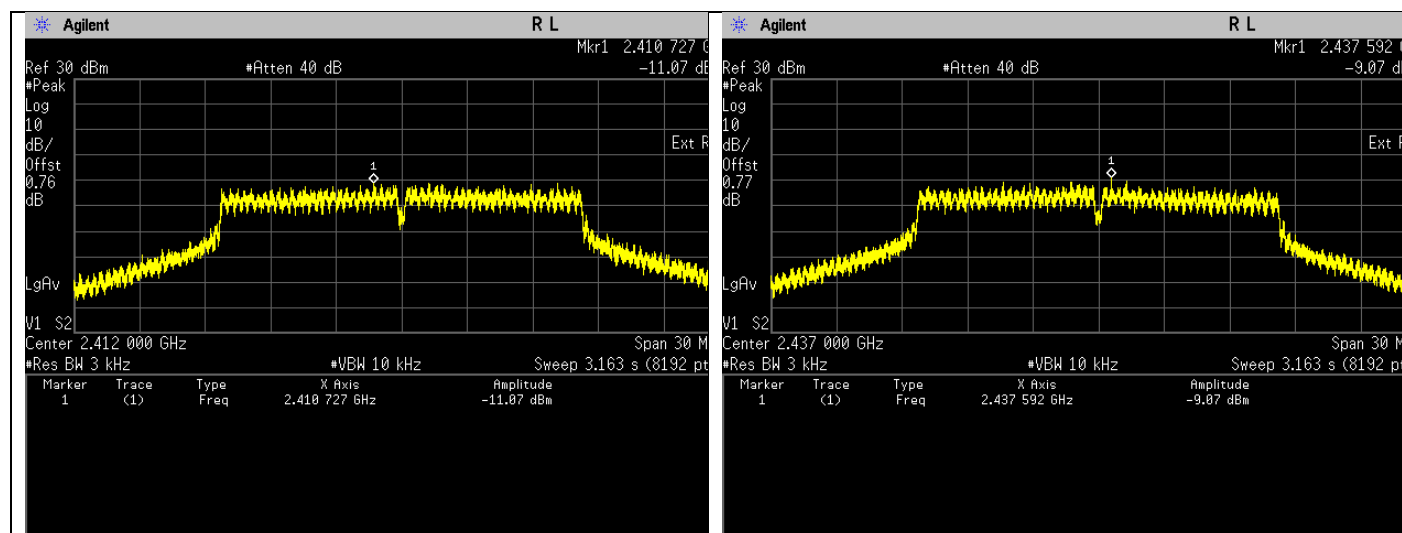
802.11b

Test Conditions				Test Frequency	Results	
Standard	Modulation Type	Modulation Technology	Data Rate (mbps)	Tx (MHz)	Power (dBm/3kHz)	Status
802.11b	OFDM	BPSK	5.5	2412	-7.58	Pass
802.11b	OFDM	BPSK	5.5	2437	-8.24	Pass
802.11b	OFDM	BPSK	5.5	2462	-7.54	Pass



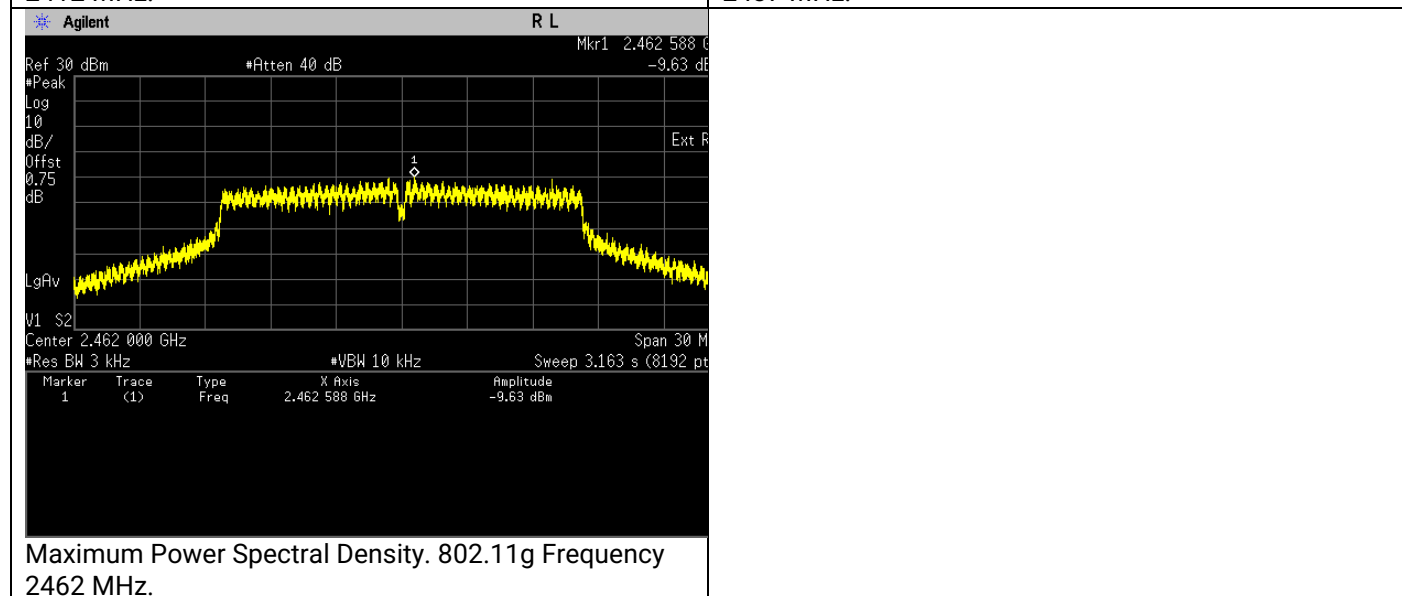
802.11g

Test Conditions				Test Frequency	Results	
Standard	Modulation Type	Modulation Technology	Data Rate (mbps)	Tx (MHz)	Power (dBm/3kHz)	Status
802.11g	OFDM	BPSK	6	2412	-11.07	Pass
802.11g	OFDM	BPSK	6	2437	-9.07	Pass
802.11g	OFDM	BPSK	6	2462	-9.63	Pass



Maximum Power Spectral Density. 802.11g Frequency 2412 MHz.

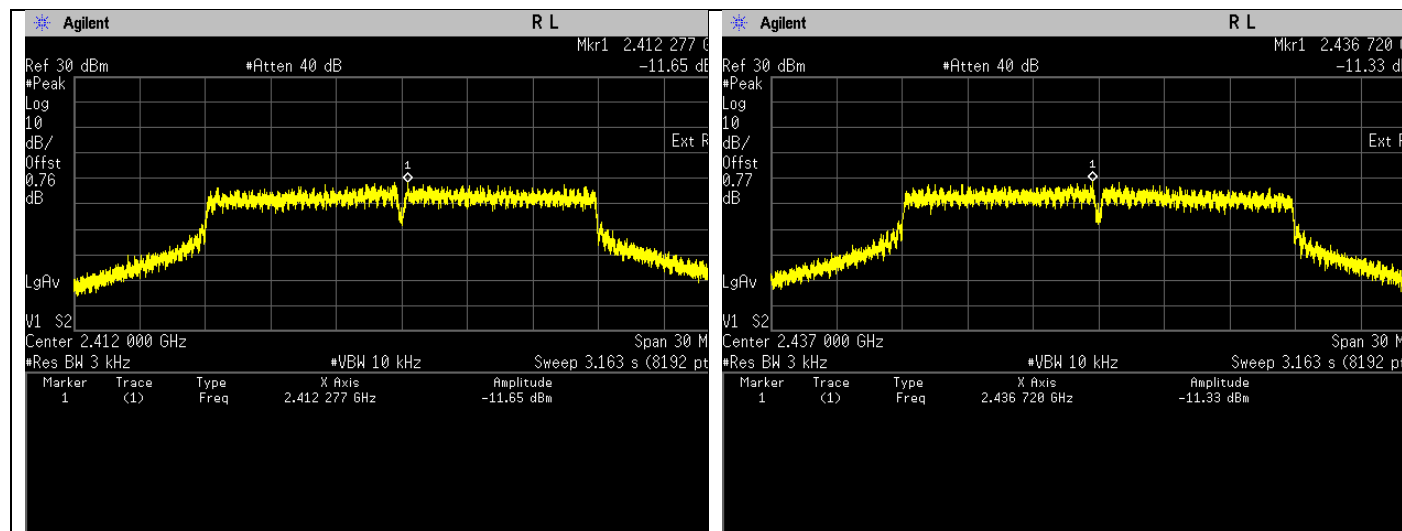
Maximum Power Spectral Density. 802.11g Frequency 2437 MHz.



Maximum Power Spectral Density. 802.11g Frequency 2462 MHz.

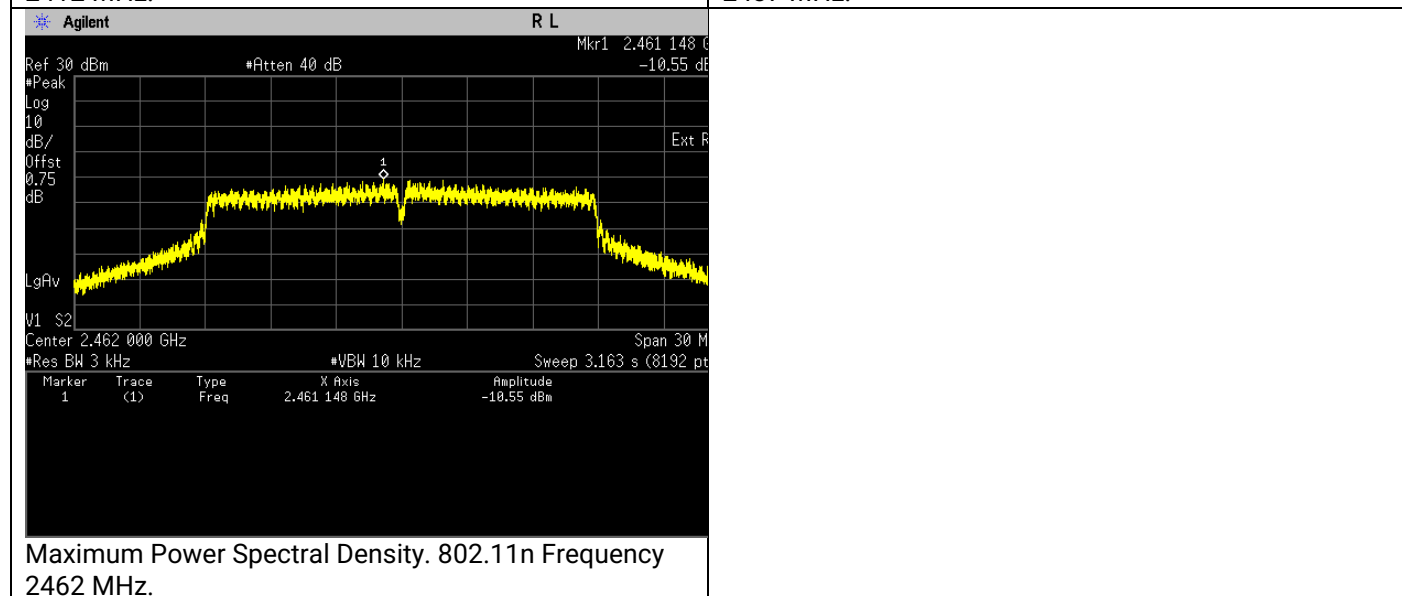
802.11n (HT20)

Test Conditions				Test Frequency	Results	
Standard	Modulation Type	Modulation Technology	Data Rate (mbps)	Tx (MHz)	Power (dBm/3kHz)	Status
802.11n	OFDM	BPSK	6.5	2412	-11.65	Pass
802.11n	OFDM	BPSK	6.5	2437	-11.33	Pass
802.11n	OFDM	BPSK	6.5	2462	-10.55	Pass



Maximum Power Spectral Density. 802.11n Frequency 2412 MHz.

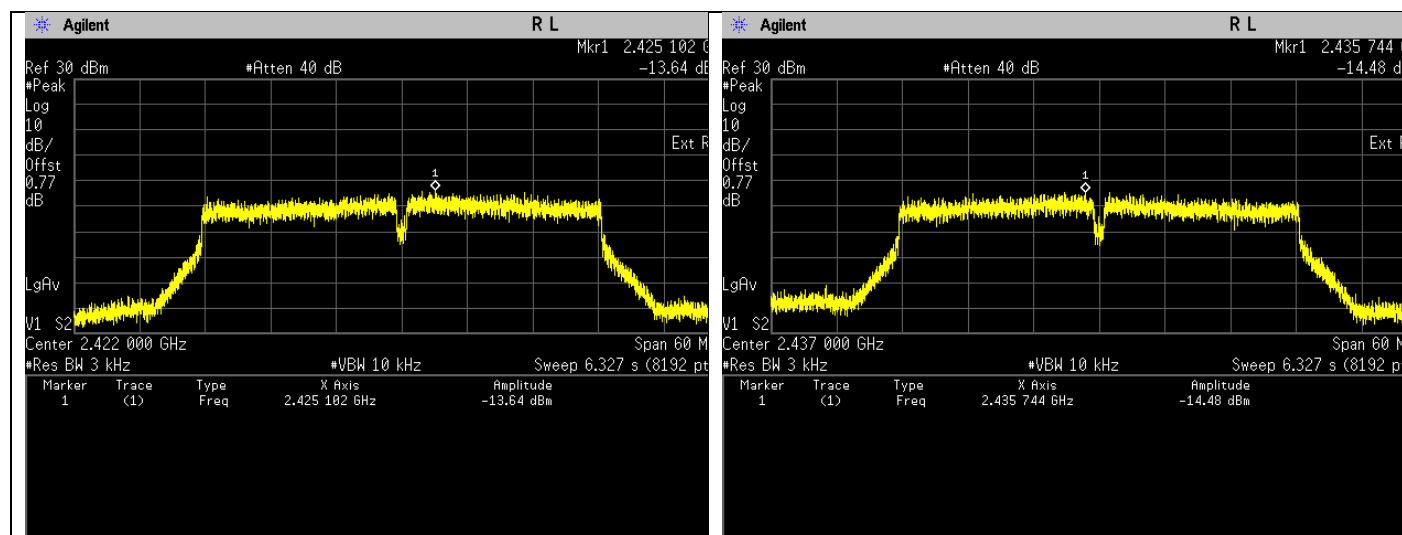
Maximum Power Spectral Density. 802.11n Frequency 2437 MHz.



Maximum Power Spectral Density. 802.11n Frequency 2462 MHz.

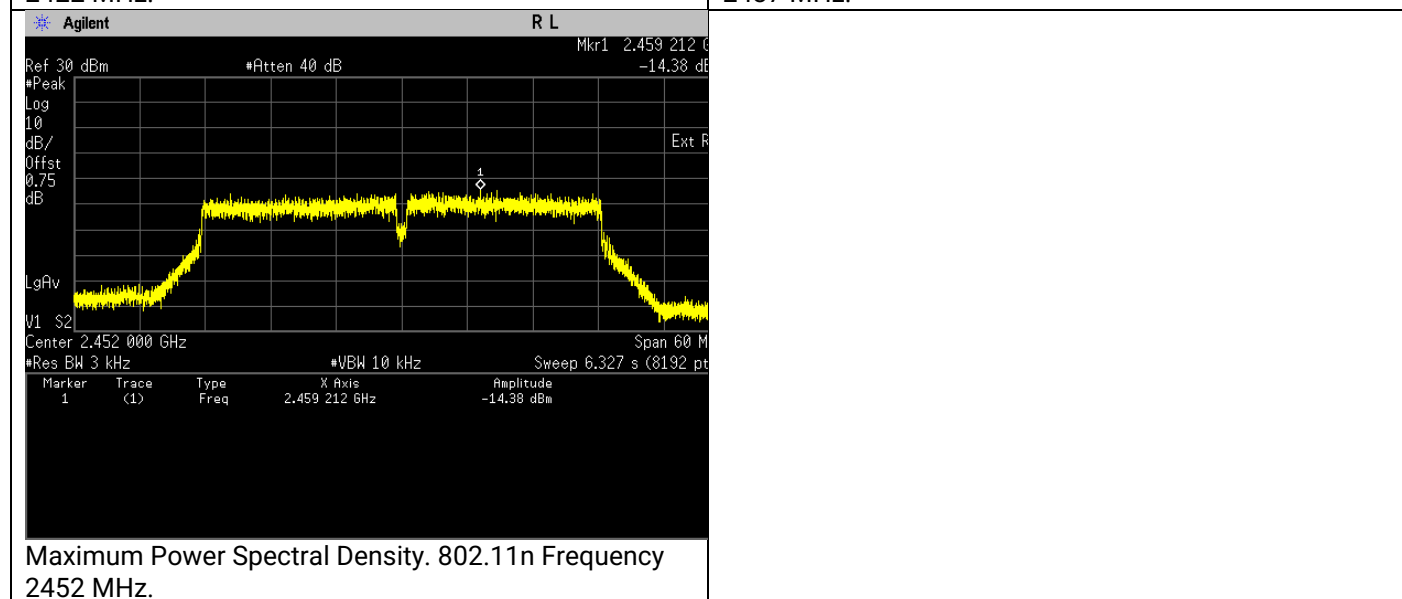
802.11n (HT40)

Test Conditions				Test Frequency	Results	
Standard	Modulation Type	Modulation Technology	Data Rate (mbps)	Tx (MHz)	Power (dBm/3kHz)	Status
802.11n	OFDM	BPSK	13.5	2422	-13.64	Pass
802.11n	OFDM	BPSK	13.5	2437	-14.48	Pass
802.11n	OFDM	BPSK	13.5	2452	-14.38	Pass



Maximum Power Spectral Density. 802.11n Frequency 2422 MHz.

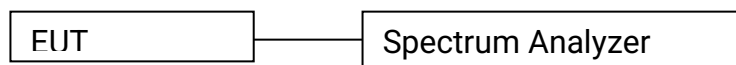
Maximum Power Spectral Density. 802.11n Frequency 2437 MHz.



Maximum Power Spectral Density. 802.11n Frequency 2452 MHz.

6.5. Conducted Spurious Emission

6.5.1. Test Setup



- a) Check and ensure the spectrum analyzer well calibrate.
- b) Turn on the DUT and set DUT to transmit maximum power.
- c) Connect DUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer :
 - a. RBW = 100 kHz
 - b. VBW = 300 kHz
 - c. Detector mode = Peak
 - d. Trace = Max Hold
 - e. Sweep = auto
- e) Use the peak marker function to measure highest emission and scan up to 10th harmonic.
- f) Measure every antenna port by repeat the step above for MIMO measurement.

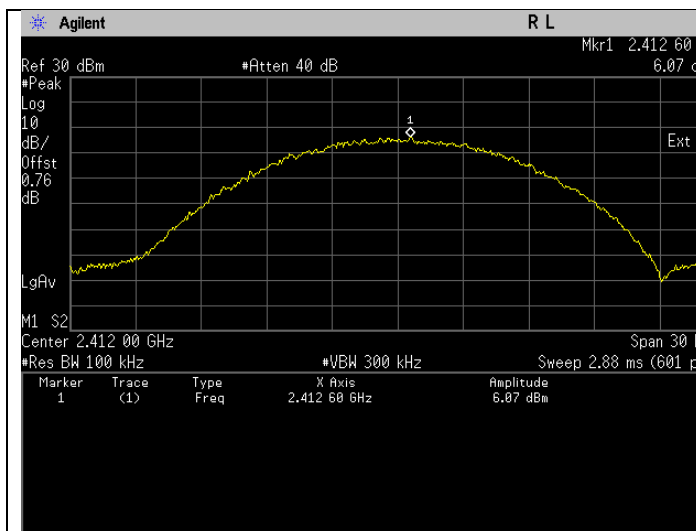
6.5.2. Test Limits:

Normal Condition (25 ° C)
Shall be at least 20 dB below max power. (Peak detector)

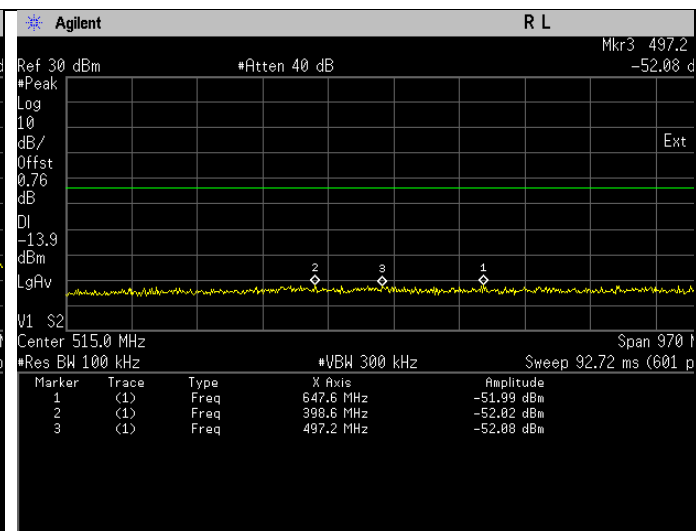
6.5.3. Test Result

802.11b

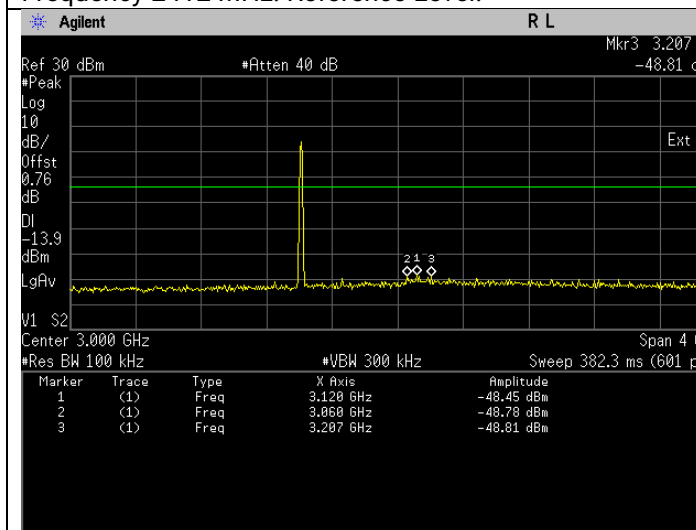
Test Conditions				Test Frequency	Results		
Standard	Modulation Type	Modulation Technology	Data Rate (mbps)	Tx (MHz)	Spurs (MHz)	Level (dBm)	Status
802.11b	OFDM	BPSK	5.5	2412	23400.000	-42.80	Pass
					24825.000	-43.03	Pass
					24775.000	-43.22	Pass
802.11b	OFDM	BPSK	5.5	2437	24992.000	-43.46	Pass
					24658.000	-43.75	Pass
					24950.000	-43.90	Pass
802.11b	OFDM	BPSK	5.5	2462	24767.000	-43.72	Pass
					24625.000	-43.90	Pass
					24117.000	-43.98	Pass



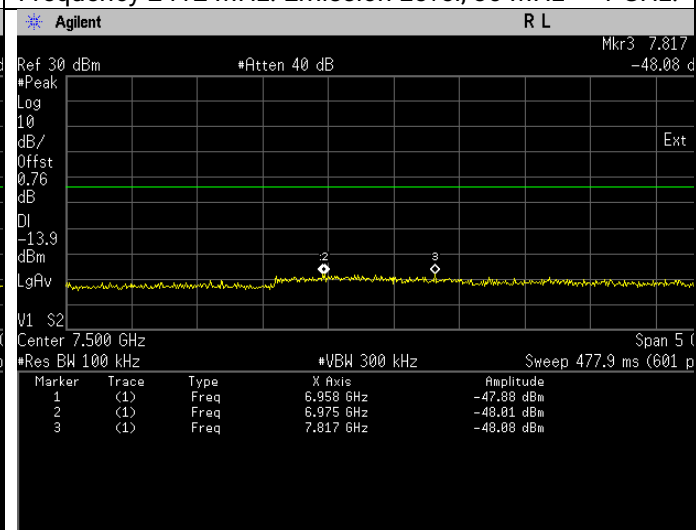
Frequency 2412 MHz. Reference Level.



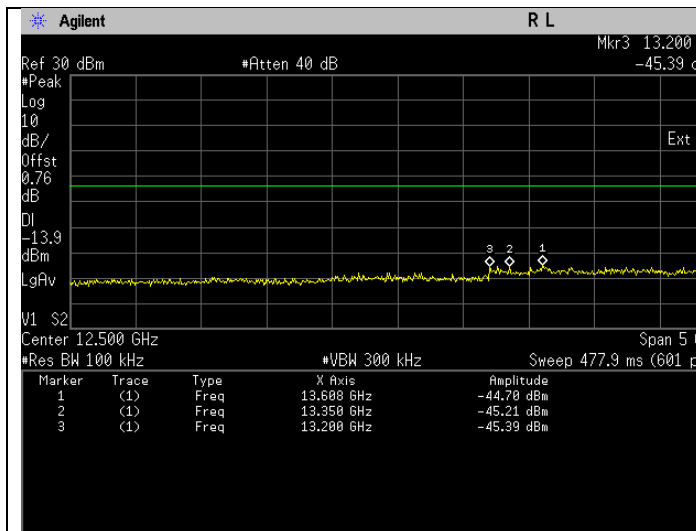
Frequency 2412 MHz. Emission Level, 30 MHz -> 1 GHz.



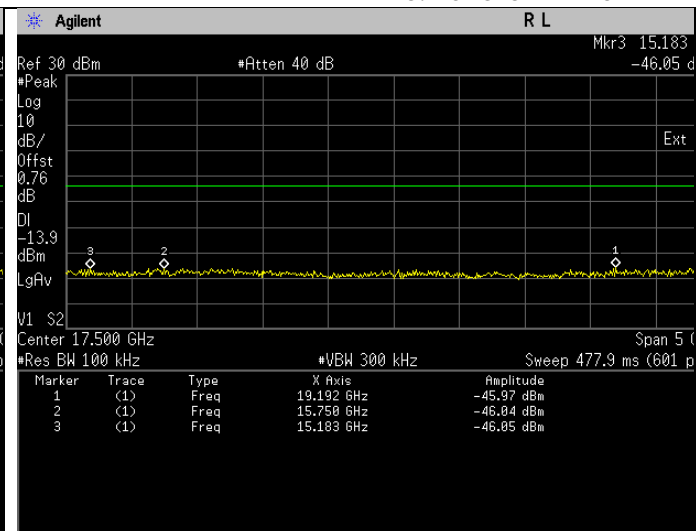
Frequency 2412 MHz. Emission Level, 1 GHz -> 5 GHz.



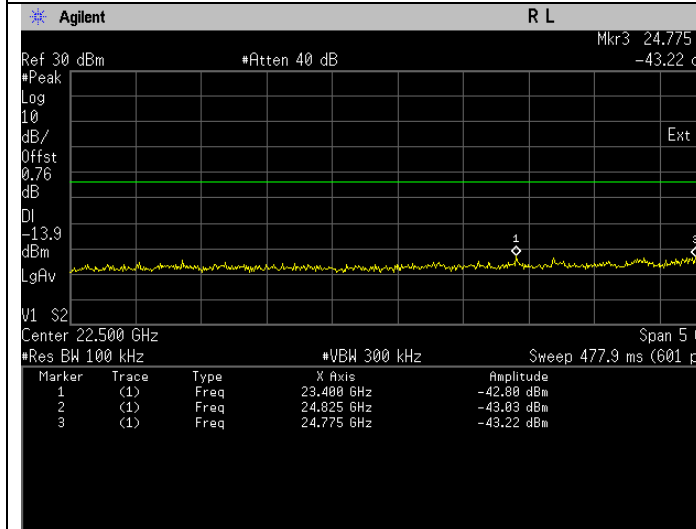
Frequency 2412 MHz. Emission Level, 5 GHz -> 10 GHz.



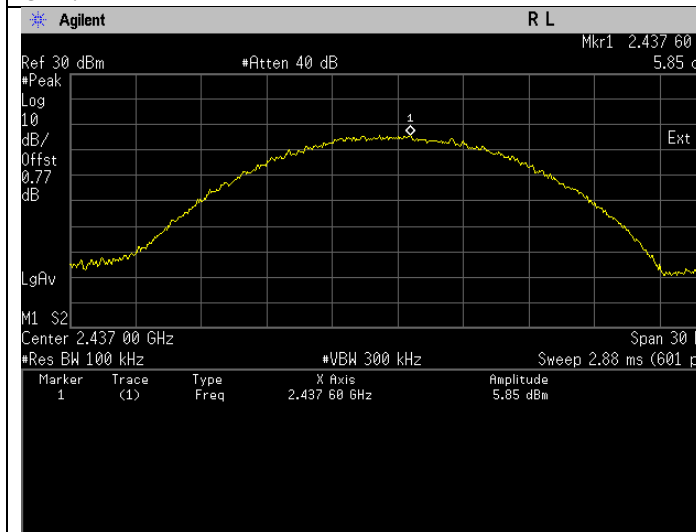
Frequency 2412 MHz. Emission Level, 10 GHz -> 15 GHz.



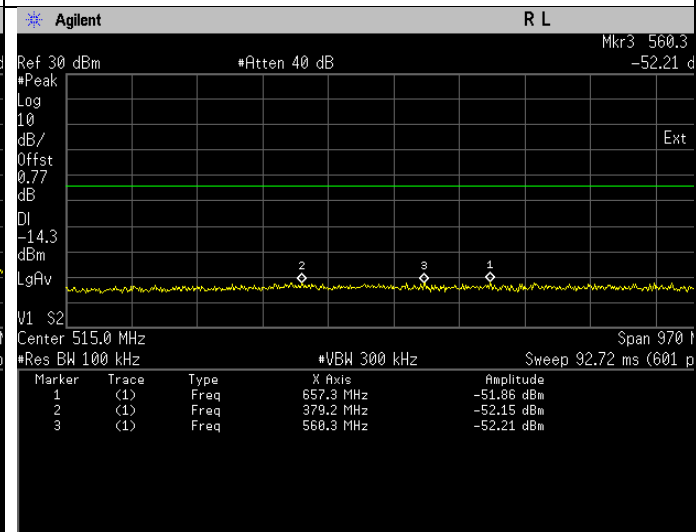
Frequency 2412 MHz. Emission Level, 15 GHz -> 20 GHz.



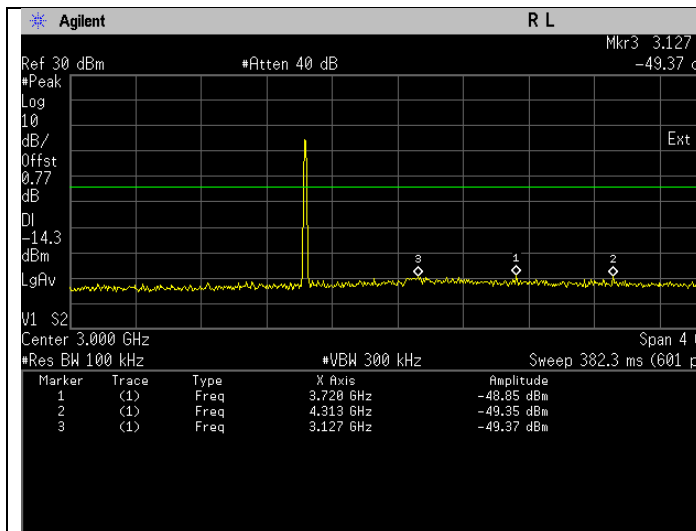
Frequency 2412 MHz Emission Level, 20 GHz -> 25 GHz.



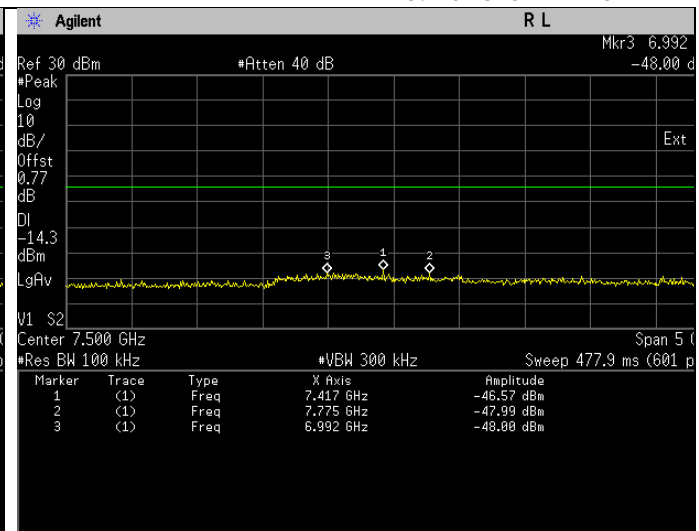
Frequency 2437 MHz. Reference Level.



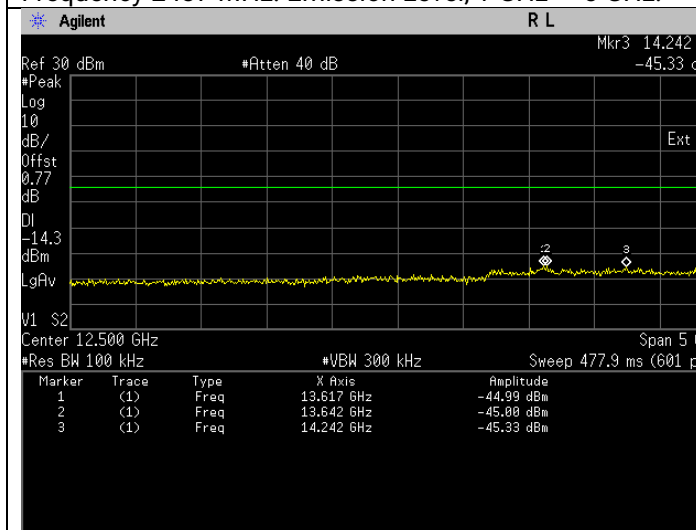
Frequency 2437 MHz. Emission Level, 30 MHz -> 1 GHz.



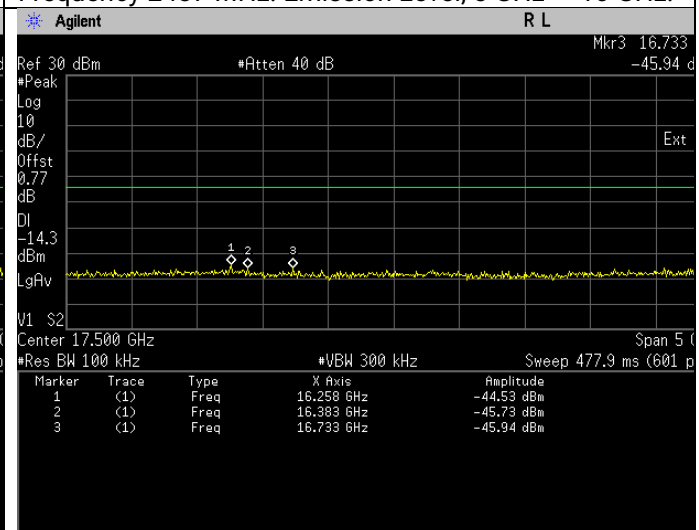
Frequency 2437 MHz. Emission Level, 1 GHz -> 5 GHz.



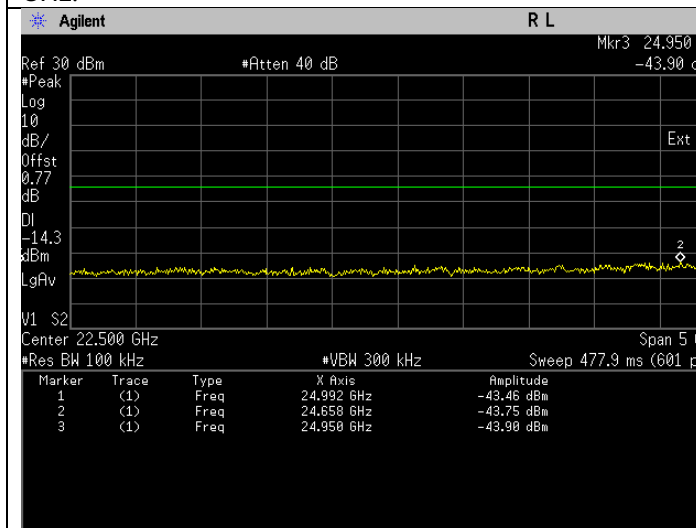
Frequency 2437 MHz. Emission Level, 5 GHz -> 10 GHz.



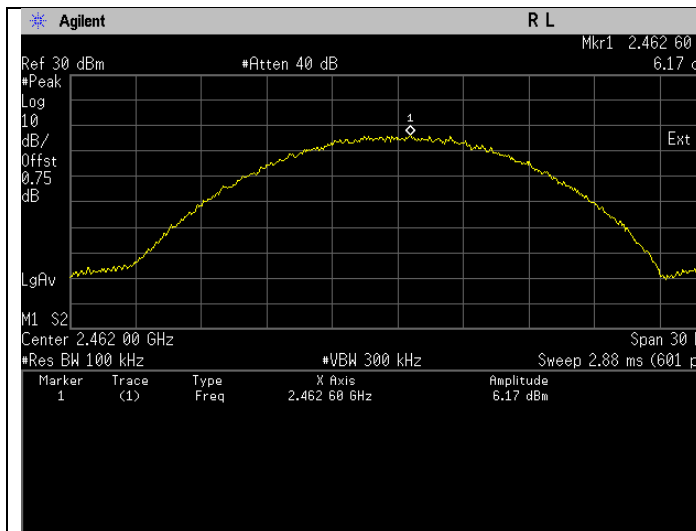
Frequency 2437 MHz. Emission Level, 10 GHz -> 15 GHz.



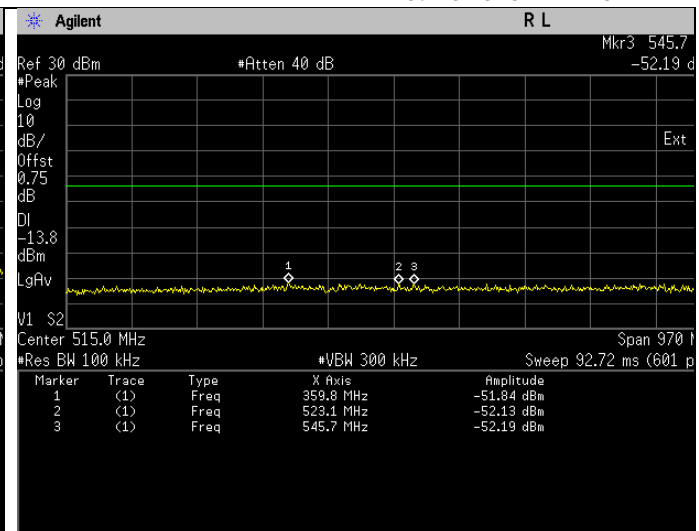
Frequency 2437 MHz. Emission Level, 15 GHz -> 20 GHz.



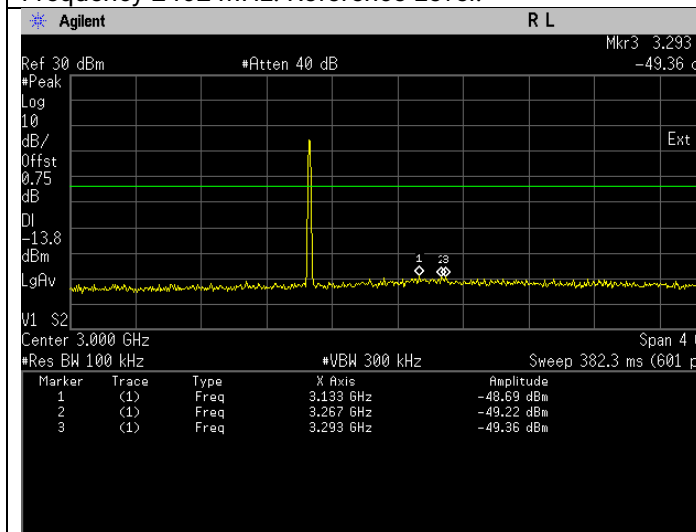
Frequency 2437 MHz Emission Level, 20 GHz -> 25 GHz.



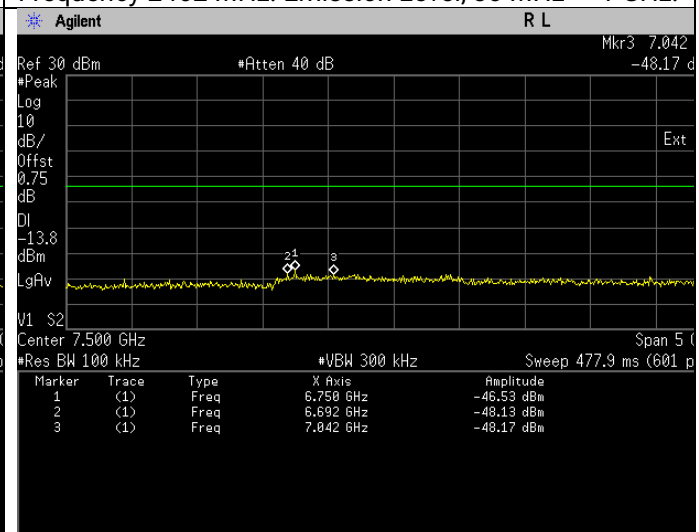
Frequency 2462 MHz. Reference Level.



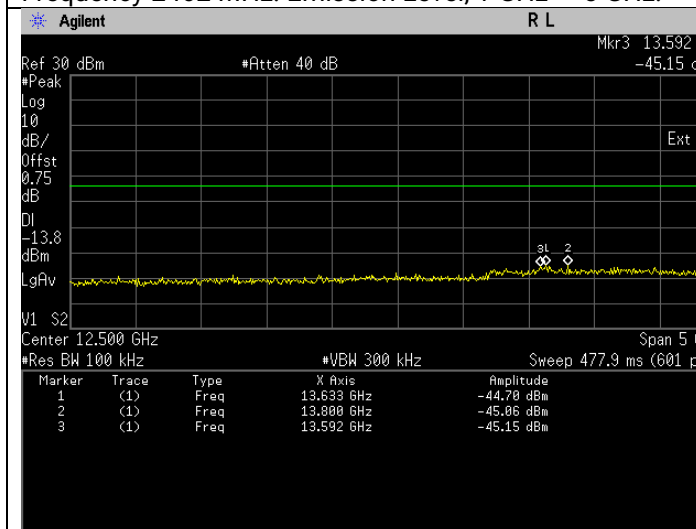
Frequency 2462 MHz. Emission Level, 30 MHz -> 1 GHz.



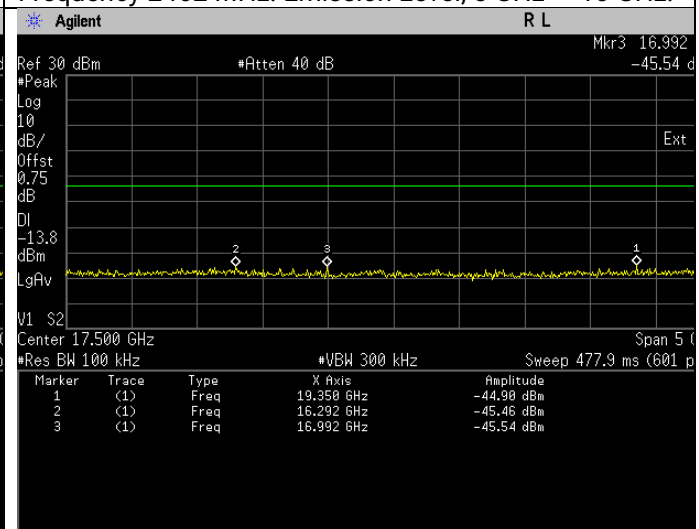
Frequency 2462 MHz. Emission Level, 1 GHz -> 5 GHz.



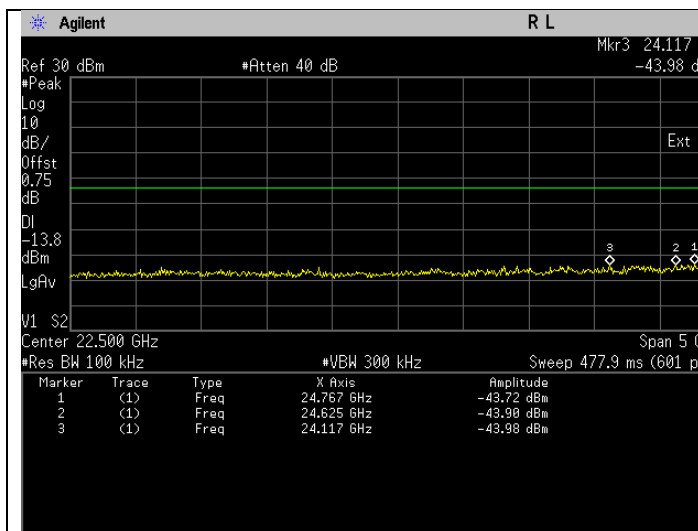
Frequency 2462 MHz. Emission Level, 5 GHz -> 10 GHz.



Frequency 2462 MHz. Emission Level, 10 GHz -> 15 GHz.



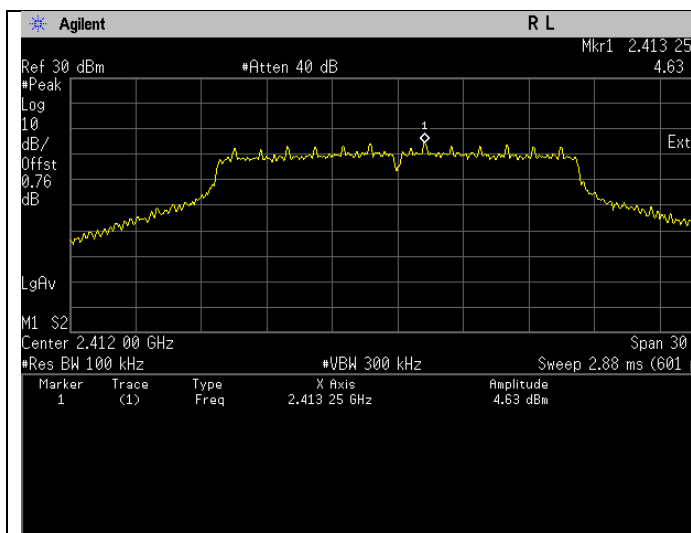
Frequency 2462 MHz. Emission Level, 15 GHz -> 20 GHz.



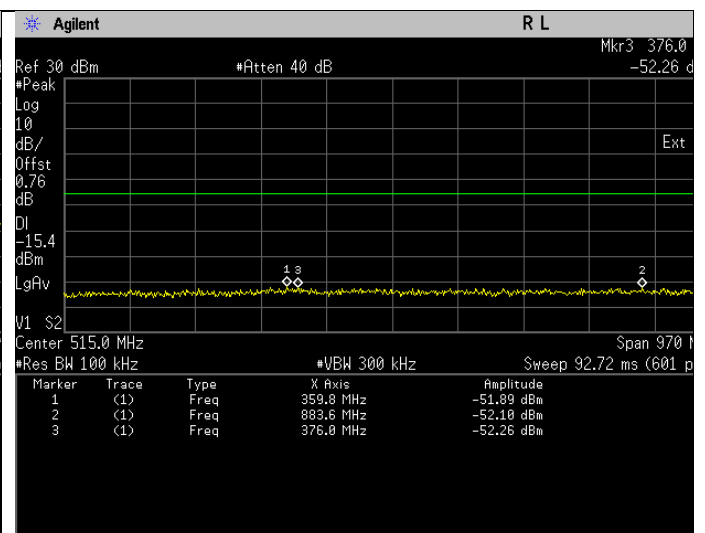
Frequency 2462 MHz Emission Level, 20 GHz -> 25 GHz.

802.11g

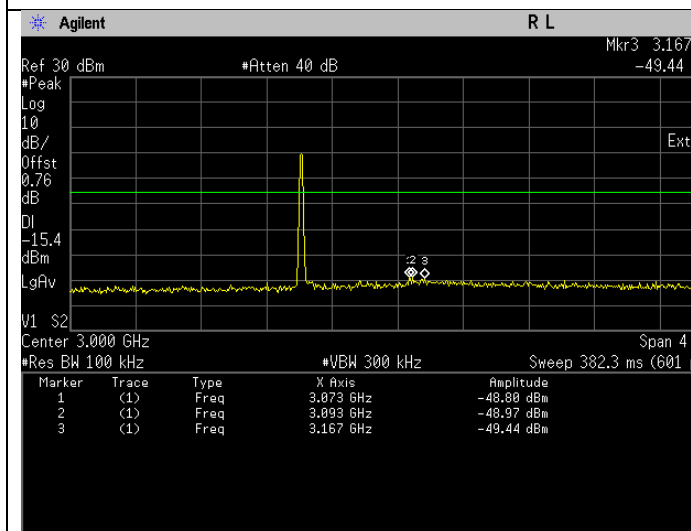
Test Conditions				Test Frequency	Results		
Standard	Modulation Type	Modulation Technology	Data Rate (mbps)	Tx (MHz)	Spurs (MHz)	Level (dBm)	Status
802.11g	OFDM	BPSK	6	2412	24983.000	-43.46	Pass
					24092.000	-43.67	Pass
					24300.000	-43.73	Pass
802.11g	OFDM	BPSK	6	2437	24767.000	-43.77	Pass
					24783.000	-44.09	Pass
					24700.000	-44.14	Pass
802.11g	OFDM	BPSK	6	2462	24400.000	-43.28	Pass
					24342.000	-43.66	Pass
					24308.000	-43.67	Pass



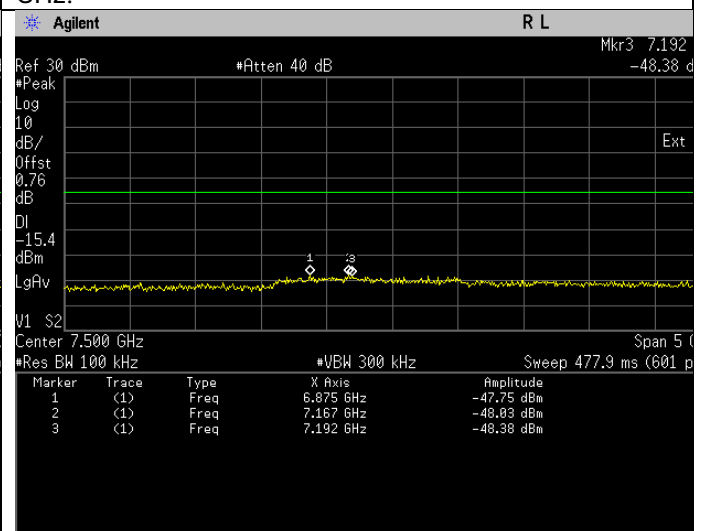
Frequency 2412 MHz. Reference Level.



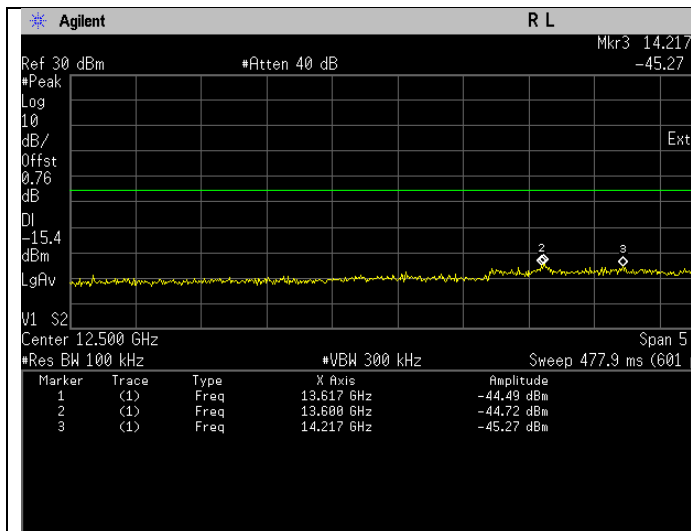
Frequency 2412 MHz. Emission Level, 30 MHz -> 1 GHz.



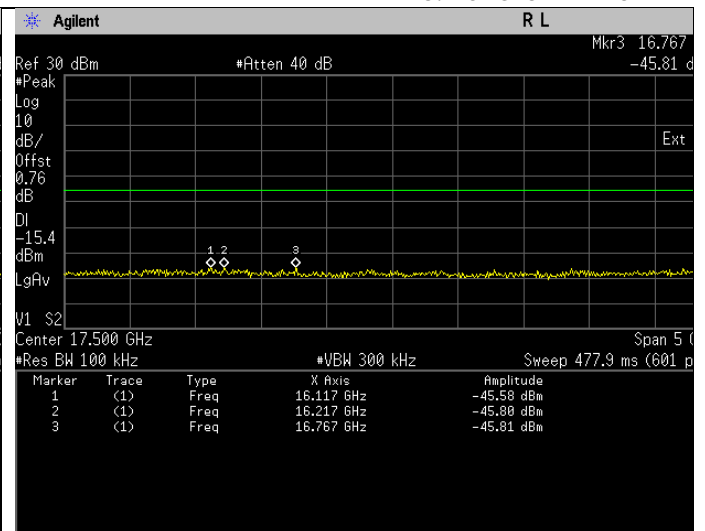
Frequency 2412 MHz. Emission Level, 1 GHz -> 5 GHz.



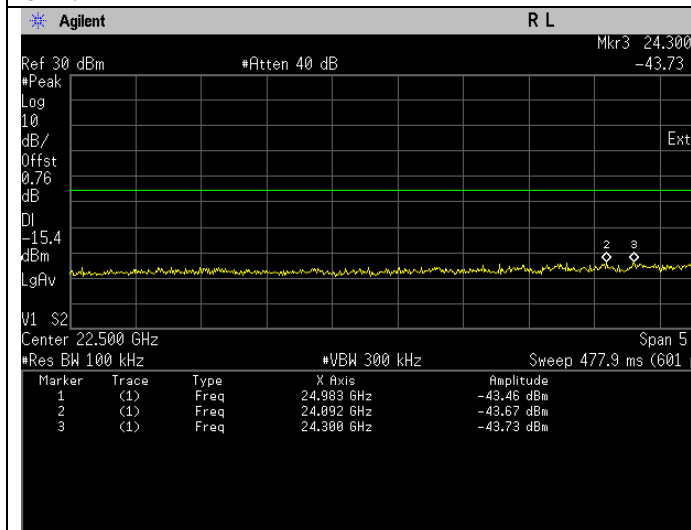
Frequency 2412 MHz. Emission Level, 5 GHz -> 10 GHz.



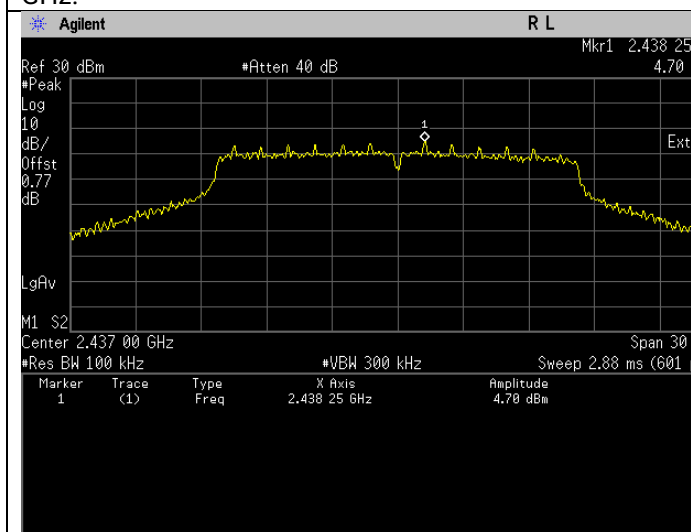
Frequency 2412 MHz. Emission Level, 10 GHz -> 15 GHz.



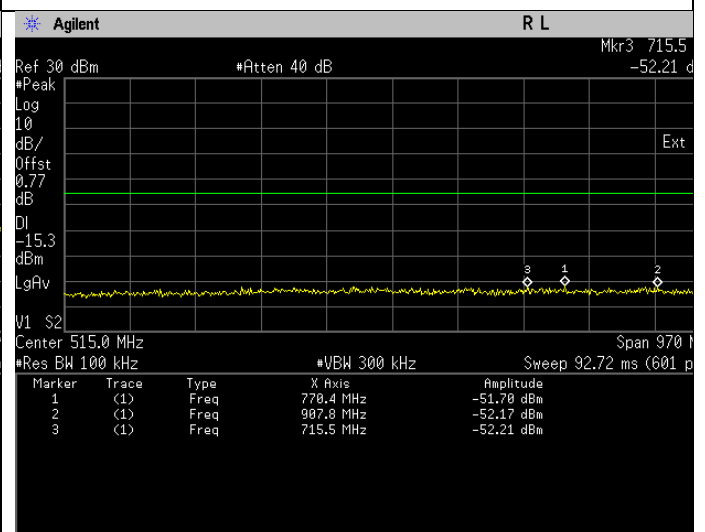
Frequency 2412 MHz. Emission Level, 15 GHz -> 20 GHz.



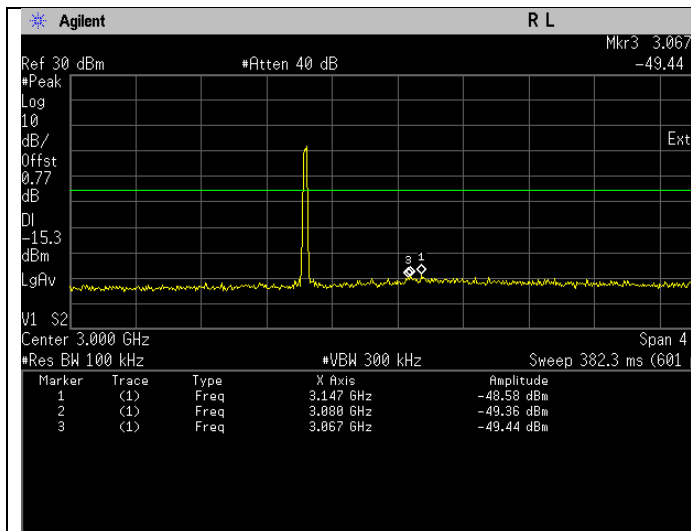
Frequency 2412 MHz Emission Level, 20 GHz -> 25 GHz.



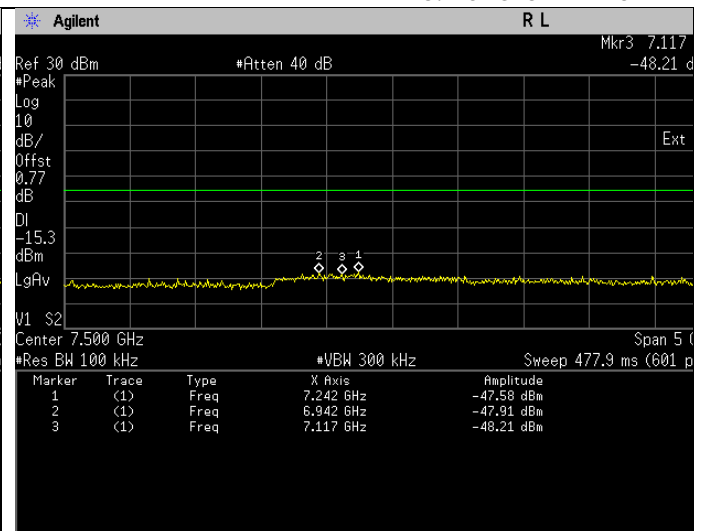
Frequency 2437 MHz. Reference Level.



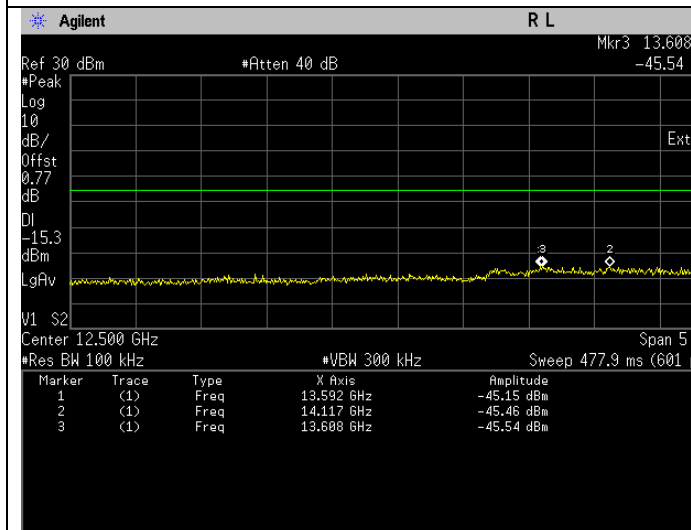
Frequency 2437 MHz. Emission Level, 30 MHz -> 1 GHz.



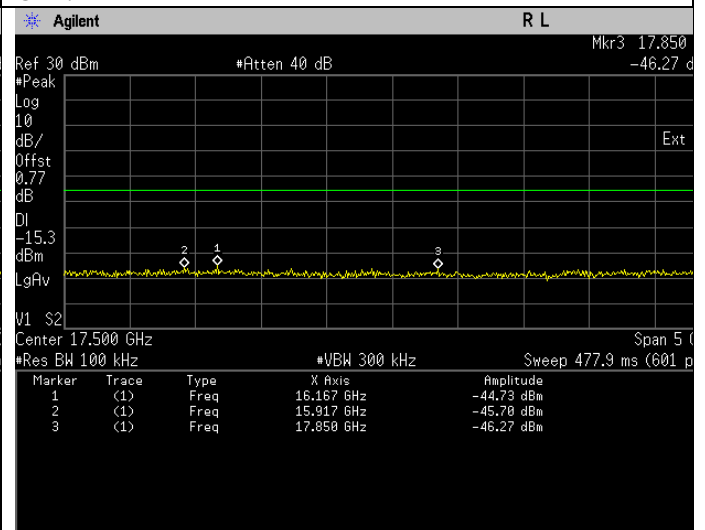
Frequency 2437 MHz. Emission Level, 1 GHz -> 5 GHz.



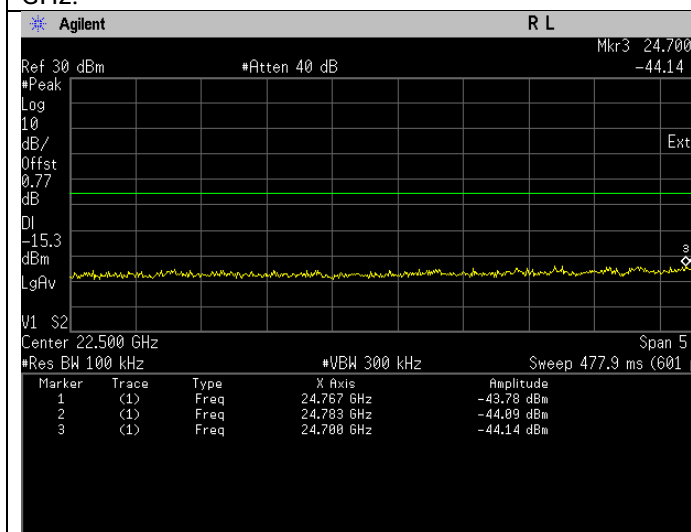
Frequency 2437 MHz. Emission Level, 5 GHz -> 10 GHz.



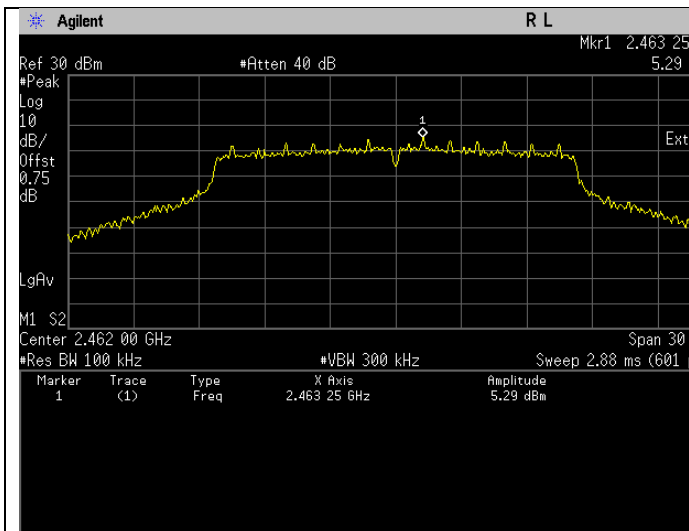
Frequency 2437 MHz. Emission Level, 10 GHz -> 15 GHz.



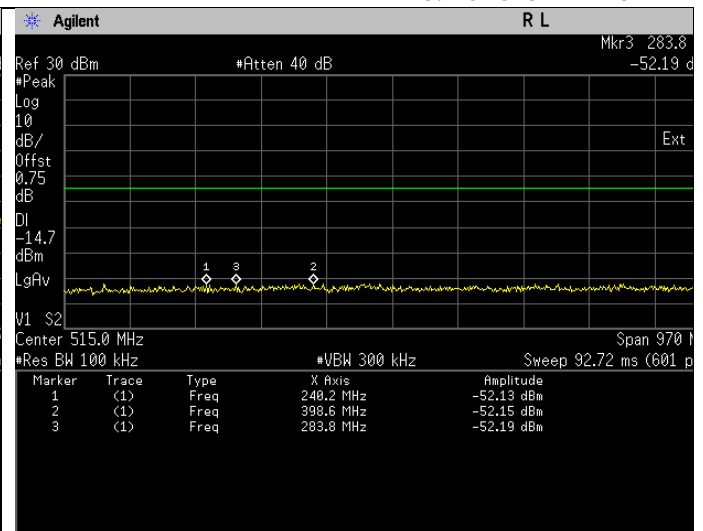
Frequency 2437 MHz. Emission Level, 15 GHz -> 20 GHz.



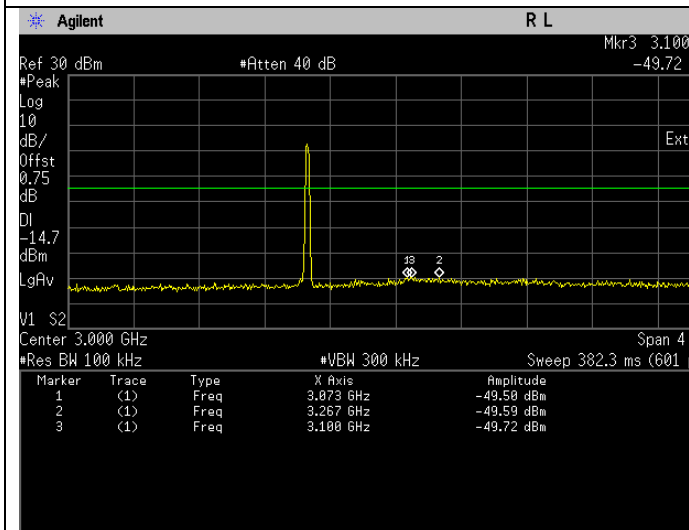
Frequency 2437 MHz Emission Level, 20 GHz -> 25 GHz.



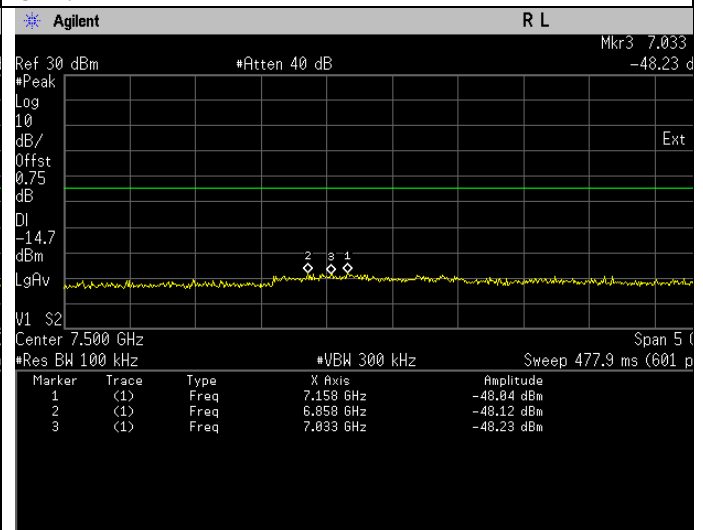
Frequency 2462 MHz. Reference Level.



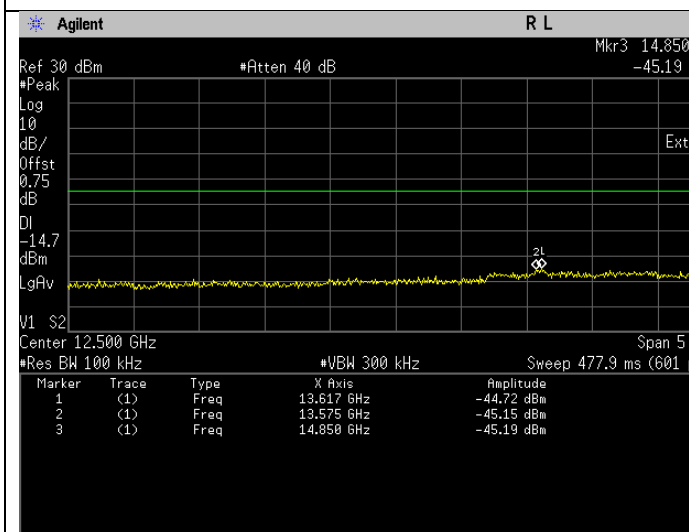
Frequency 2462 MHz. Emission Level, 30 MHz -> 1 GHz.



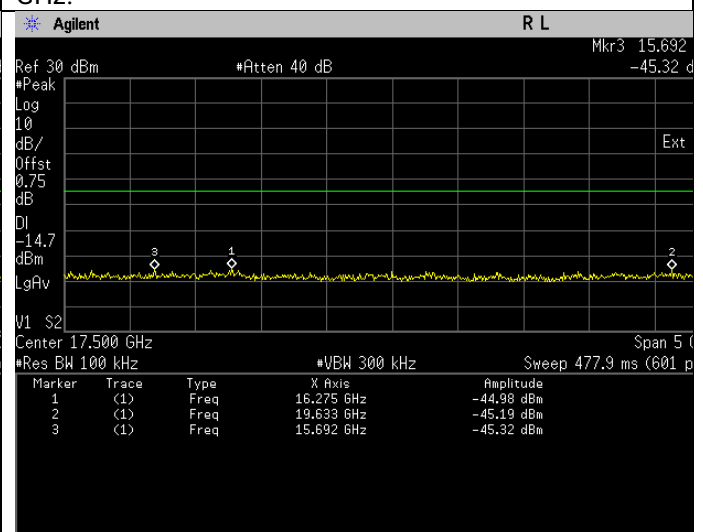
Frequency 2462 MHz. Emission Level, 1 GHz -> 5 GHz.



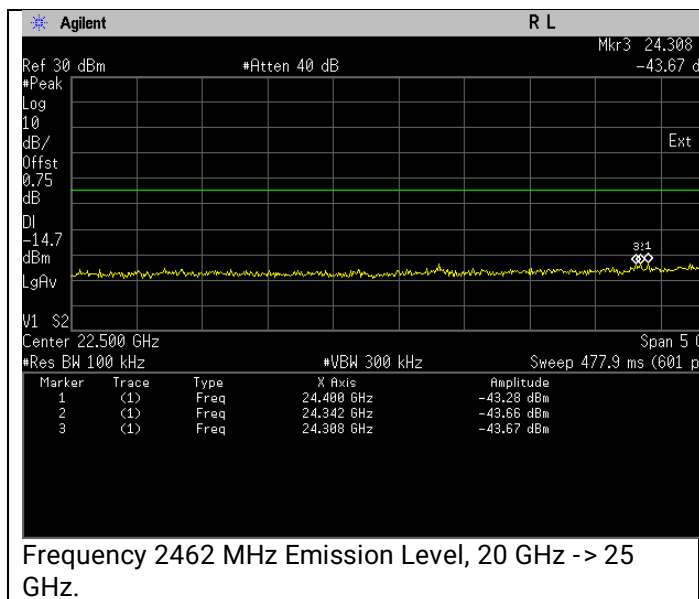
Frequency 2462 MHz. Emission Level, 5 GHz -> 10 GHz.



Frequency 2462 MHz. Emission Level, 10 GHz -> 15 GHz.

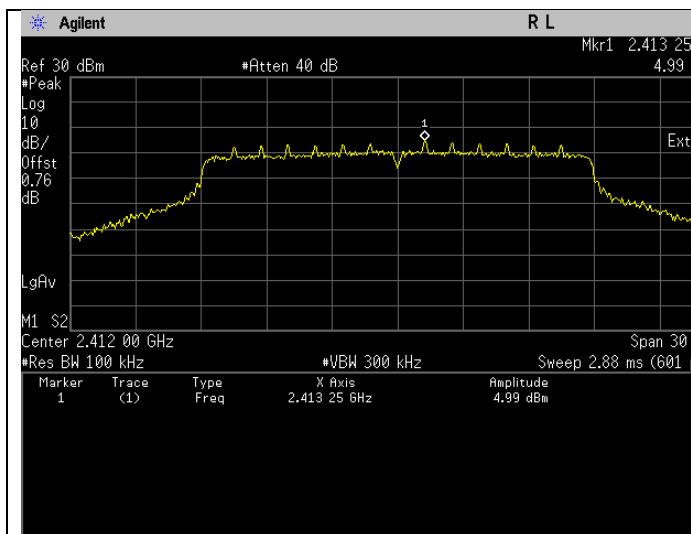


Frequency 2462 MHz. Emission Level, 15 GHz -> 20 GHz.

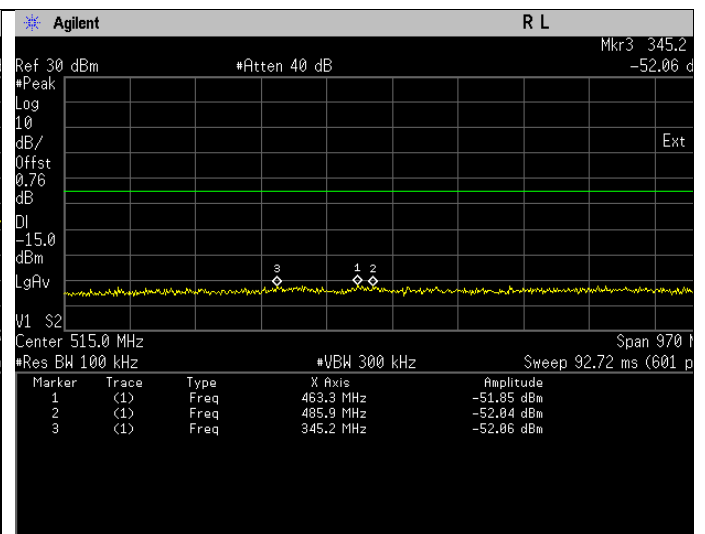


802.11n (HT20)

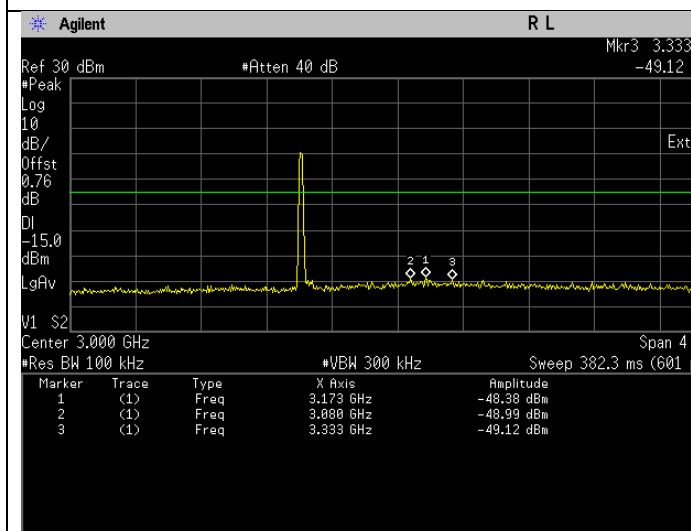
Test Conditions				Test Frequency	Results		
Standard	Modulation Type	Modulation Technology	Data Rate (mbps)	Tx (MHz)	Spurs (MHz)	Level (dBm)	Status
802.11n	OFDM	BPSK	6.5	2412	24308.000	-42.84	Pass
					24500.000	-43.14	Pass
					24383.000	-43.98	Pass
802.11n	OFDM	BPSK	6.5	2437	24992.000	-43.43	Pass
					24675.000	-43.65	Pass
					24975.000	-43.72	Pass
802.11n	OFDM	BPSK	6.5	2462	24925.000	-43.22	Pass
					24983.000	-43.45	Pass
					24683.000	-43.69	Pass



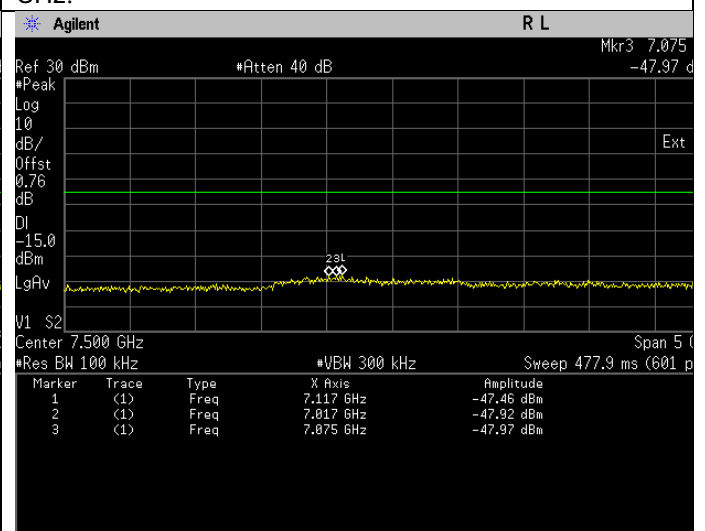
Frequency 2412 MHz. Reference Level.



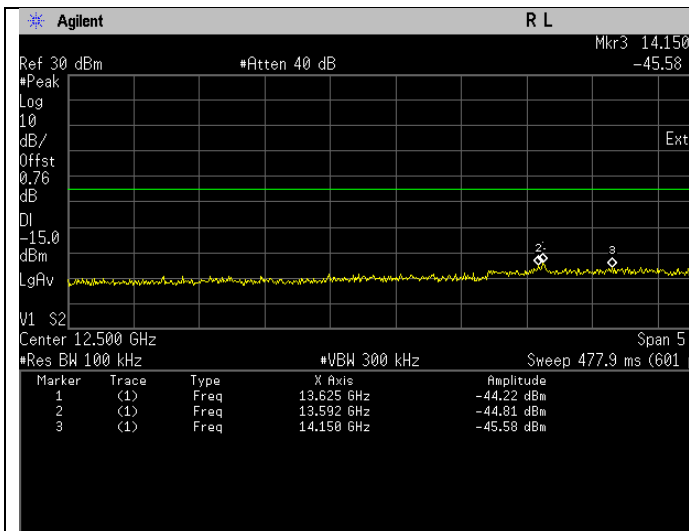
Frequency 2412 MHz. Emission Level, 30 MHz -> 1 GHz.



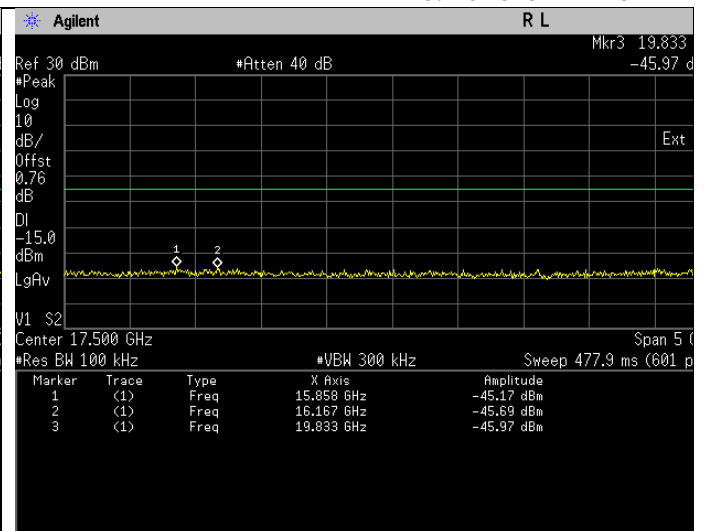
Frequency 2412 MHz. Emission Level, 1 GHz -> 5 GHz.



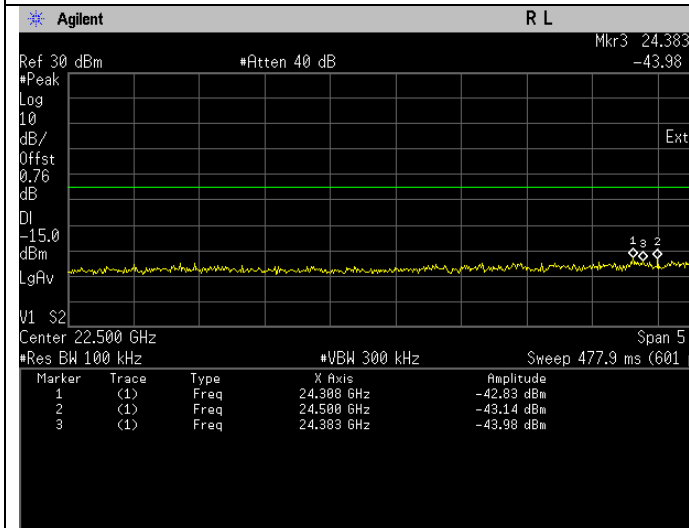
Frequency 2412 MHz. Emission Level, 5 GHz -> 10 GHz.



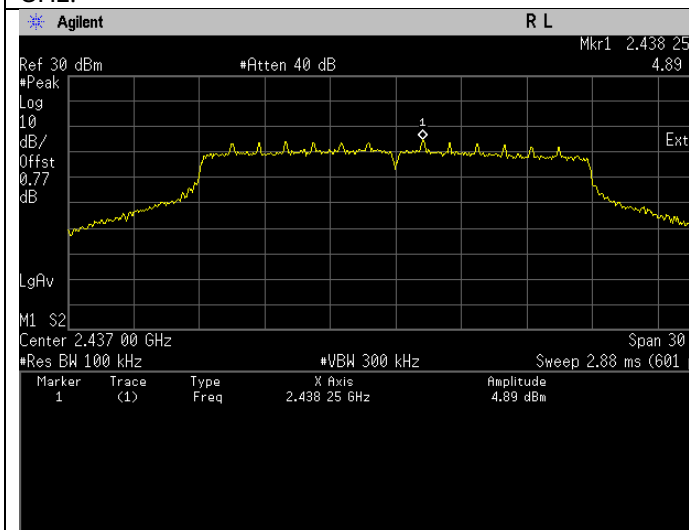
Frequency 2412 MHz. Emission Level, 10 GHz -> 15 GHz.



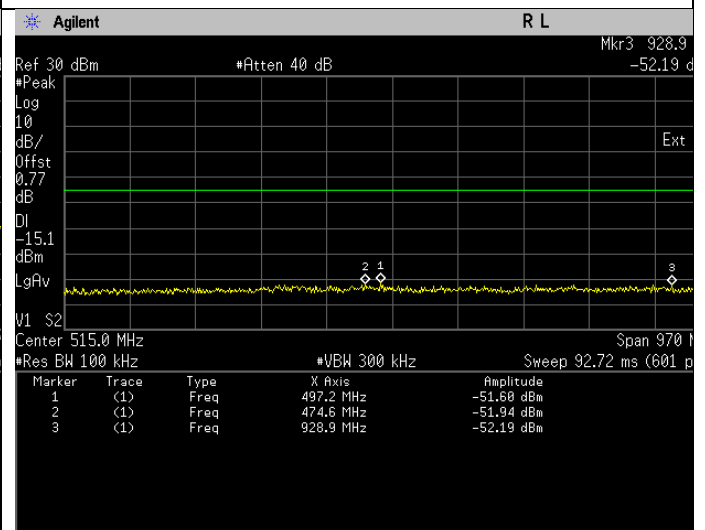
Frequency 2412 MHz. Emission Level, 15 GHz -> 20 GHz.



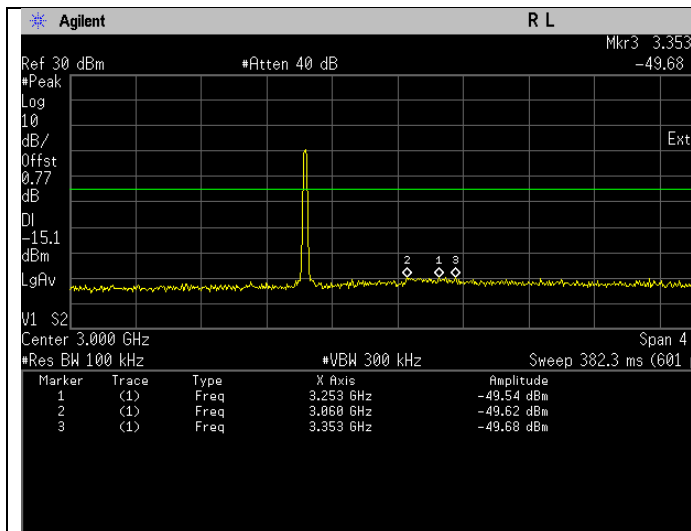
Frequency 2412 MHz Emission Level, 20 GHz -> 25 GHz.



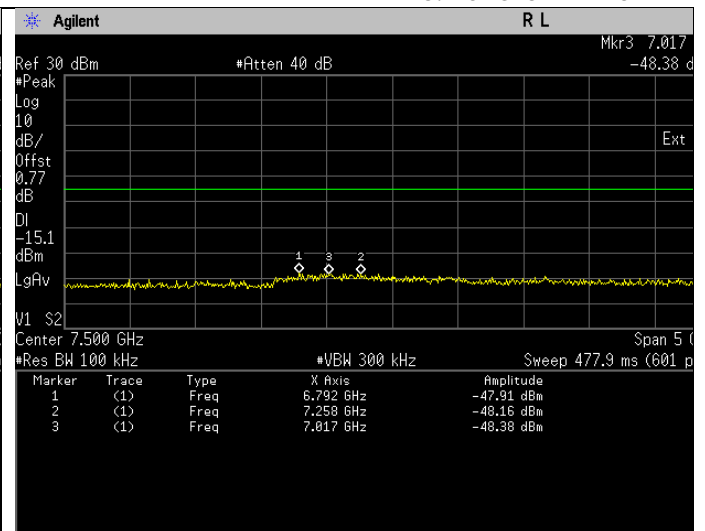
Frequency 2437 MHz. Reference Level.



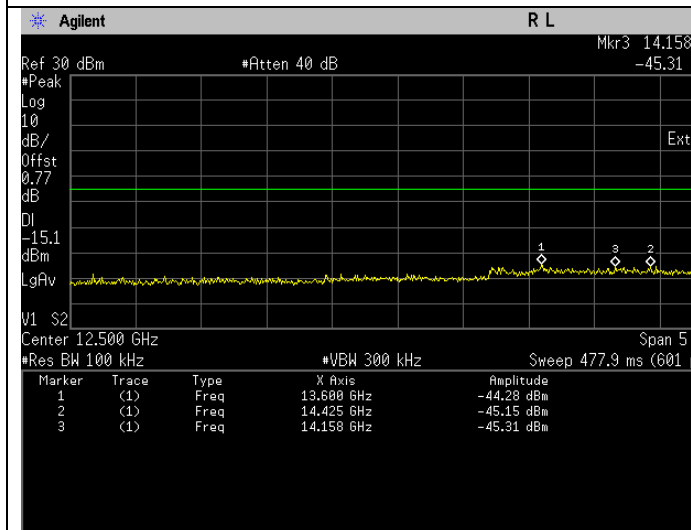
Frequency 2437 MHz. Emission Level, 30 MHz -> 1 GHz.



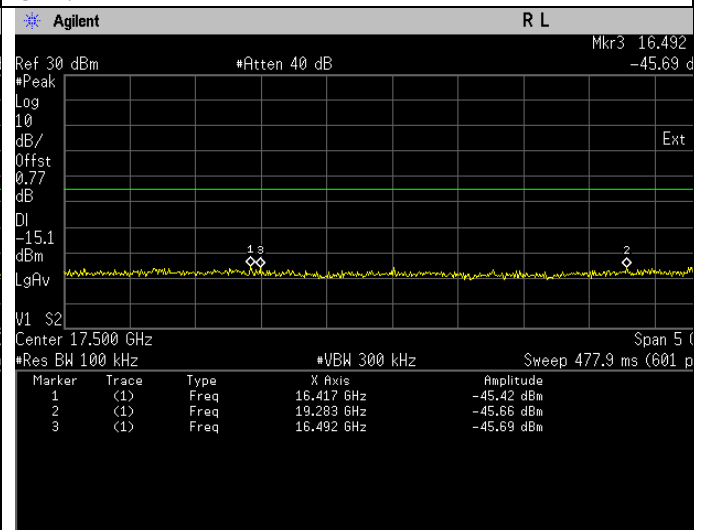
Frequency 2437 MHz. Emission Level, 1 GHz -> 5 GHz.



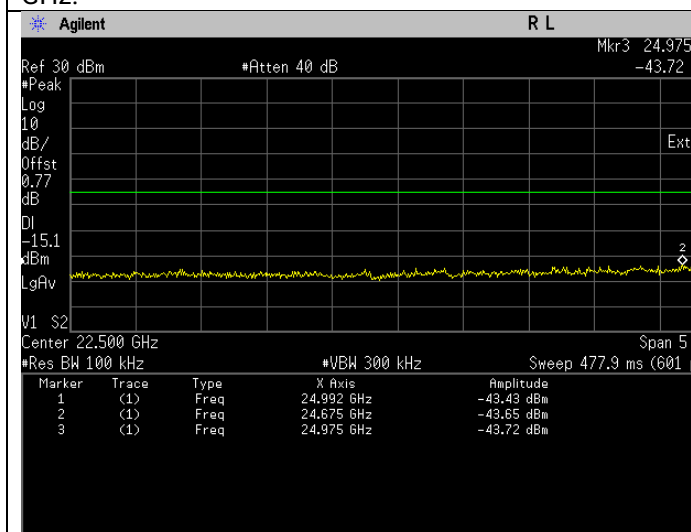
Frequency 2437 MHz. Emission Level, 5 GHz -> 10 GHz.



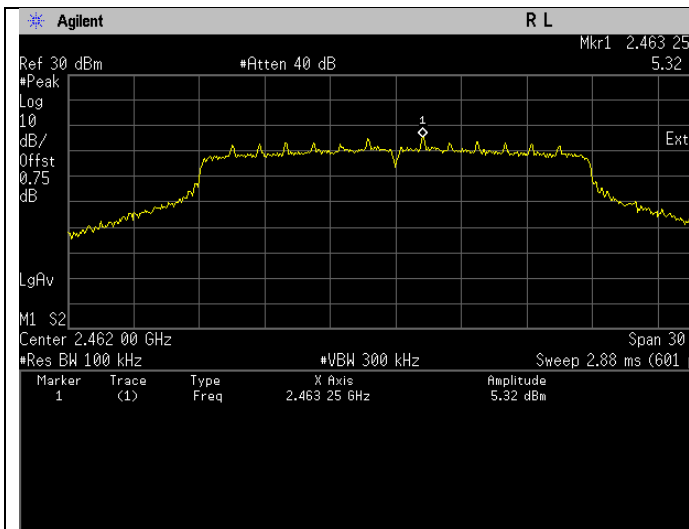
Frequency 2437 MHz. Emission Level, 10 GHz -> 15 GHz.



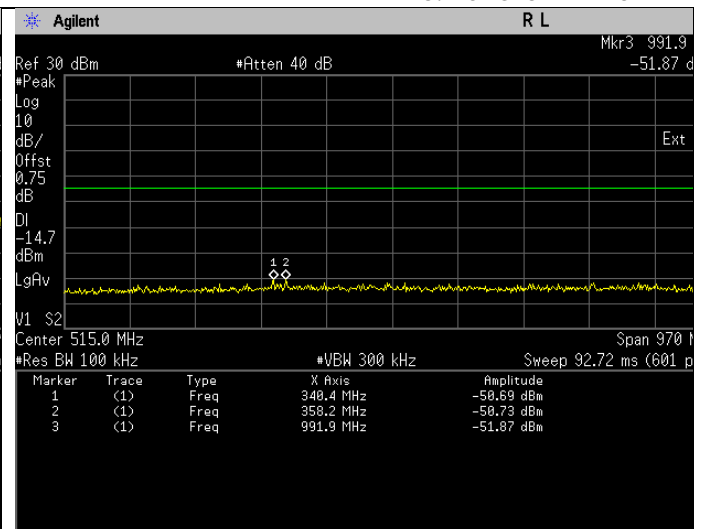
Frequency 2437 MHz. Emission Level, 15 GHz -> 20 GHz.



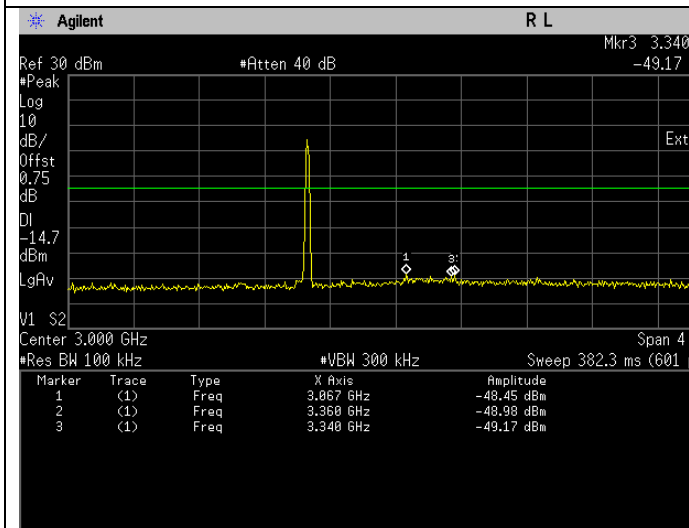
Frequency 2437 MHz Emission Level, 20 GHz -> 25 GHz.



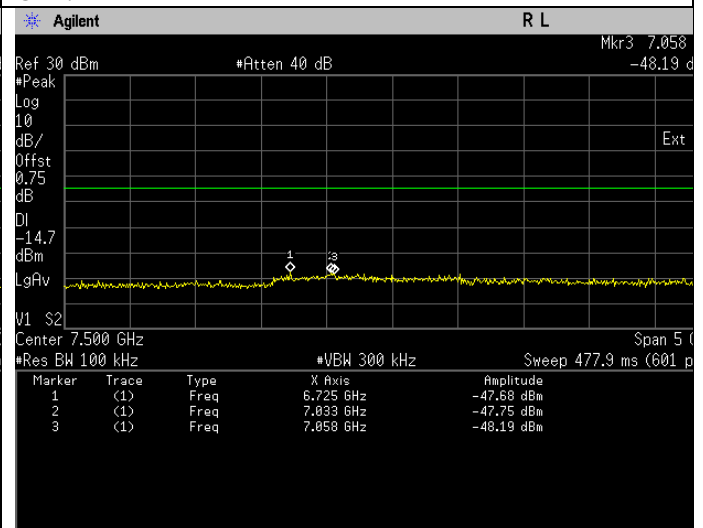
Frequency 2462 MHz. Reference Level.



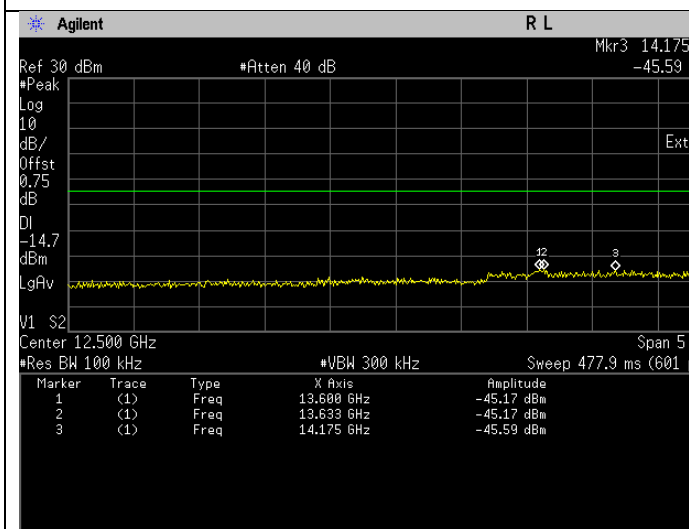
Frequency 2462 MHz. Emission Level, 30 MHz -> 1 GHz.



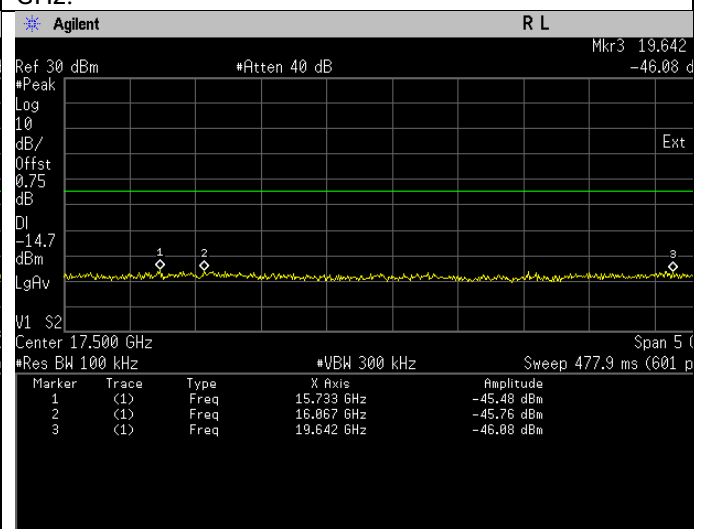
Frequency 2462 MHz. Emission Level, 1 GHz -> 5 GHz.



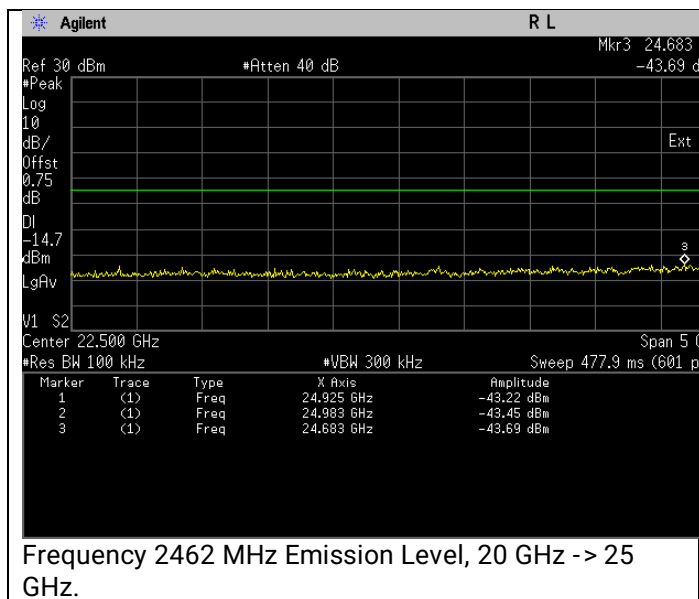
Frequency 2462 MHz. Emission Level, 5 GHz -> 10 GHz.



Frequency 2462 MHz. Emission Level, 10 GHz -> 15 GHz.

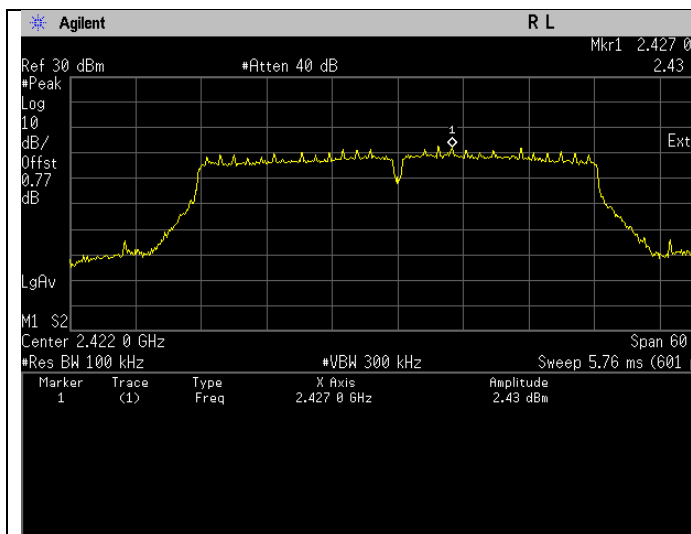


Frequency 2462 MHz. Emission Level, 15 GHz -> 20 GHz.

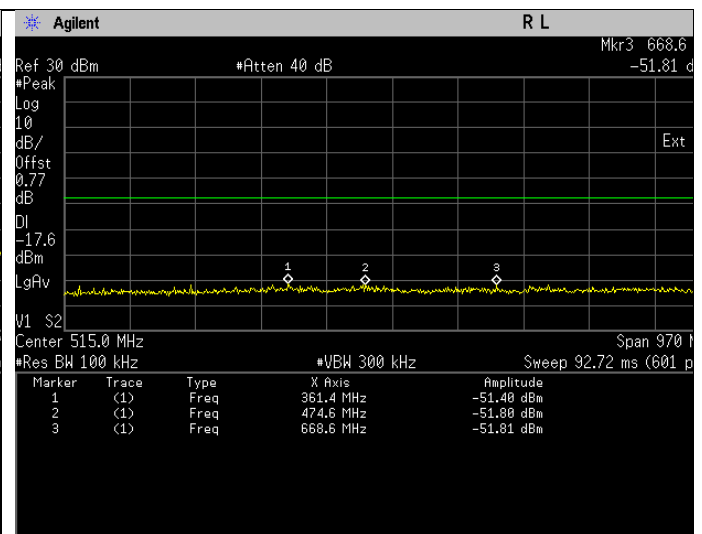


802.11n (HT40)

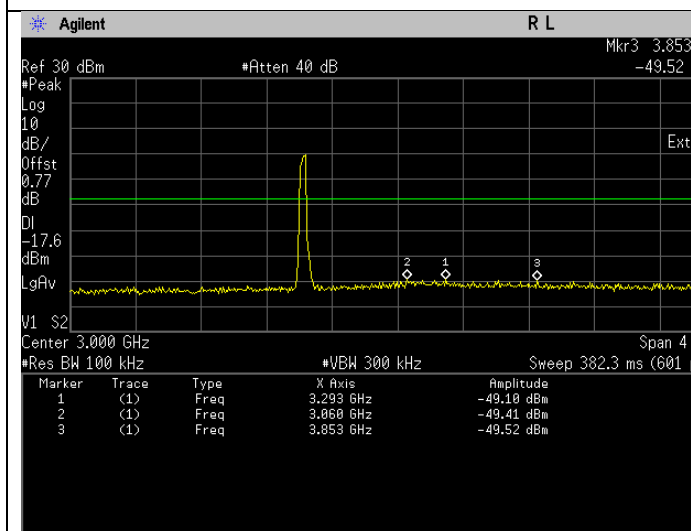
Test Conditions				Test Frequency	Results		
Standard	Modulation Type	Modulation Technology	Data Rate (mbps)	Tx (MHz)	Spurs (MHz)	Level (dBm)	Status
802.11n	OFDM	BPSK	13.5	2422	24767.000	-43.28	Pass
					23767.000	-43.65	Pass
					24425.000	-43.85	Pass
802.11n	OFDM	BPSK	13.5	2437	24092.000	-43.64	Pass
					24642.000	-43.71	Pass
					24917.000	-43.71	Pass
802.11n	OFDM	BPSK	13.5	2452	24592.000	-42.80	Pass
					24900.000	-43.11	Pass
					24867.000	-43.76	Pass



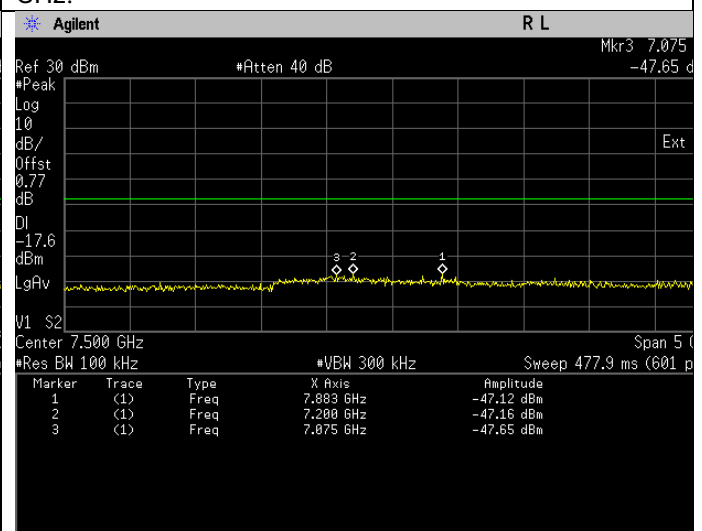
Frequency 2422 MHz. Reference Level.



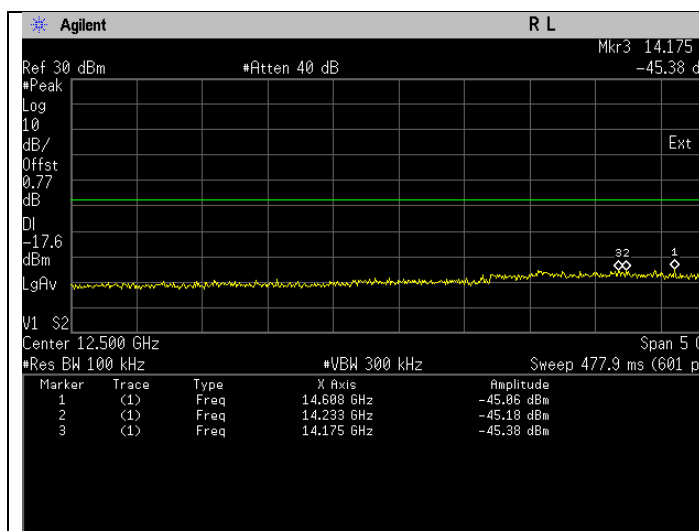
Frequency 2422 MHz. Emission Level, 30 MHz -> 1 GHz.



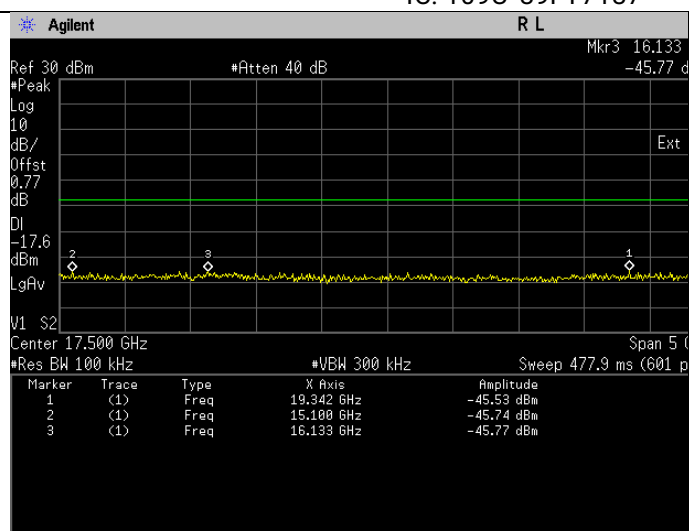
Frequency 2422 MHz. Emission Level, 1 GHz -> 5 GHz.



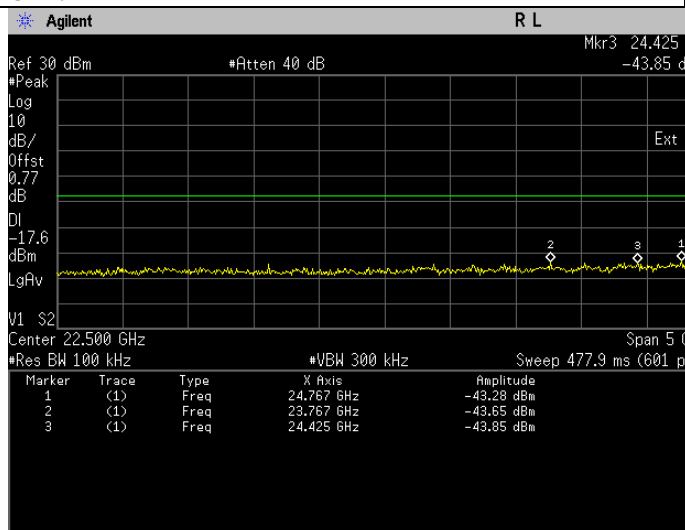
Frequency 2422 MHz. Emission Level, 5 GHz -> 10 GHz.



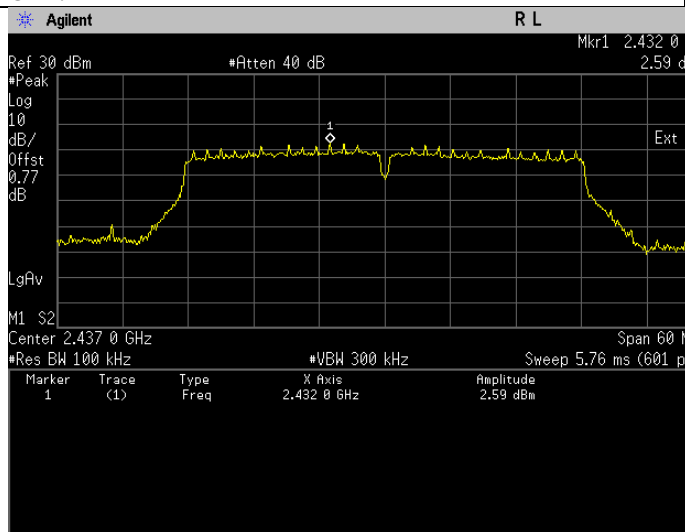
Frequency 2422 MHz. Emission Level, 10 GHz -> 15 GHz.



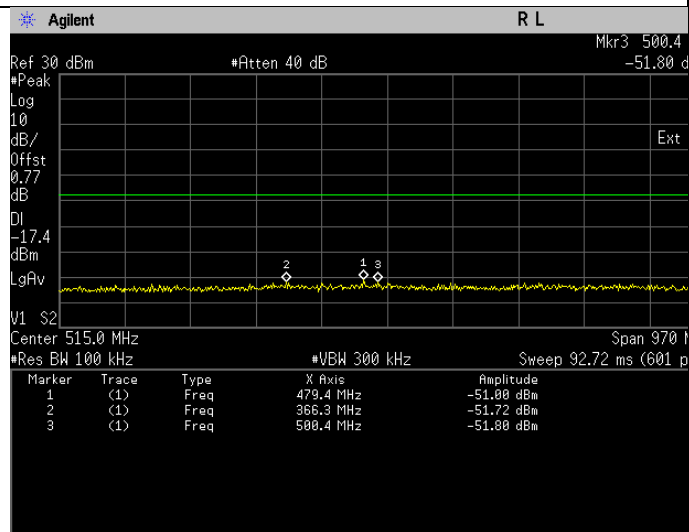
Frequency 2422 MHz. Emission Level, 15 GHz -> 20 GHz.



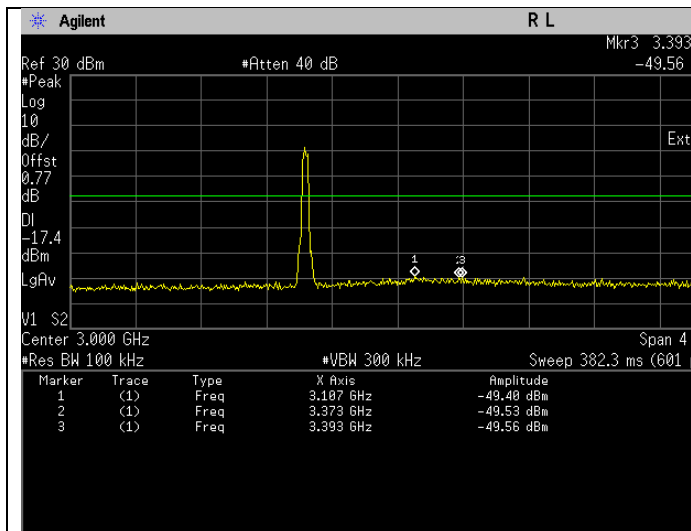
Frequency 2422 MHz Emission Level, 20 GHz -> 25 GHz.



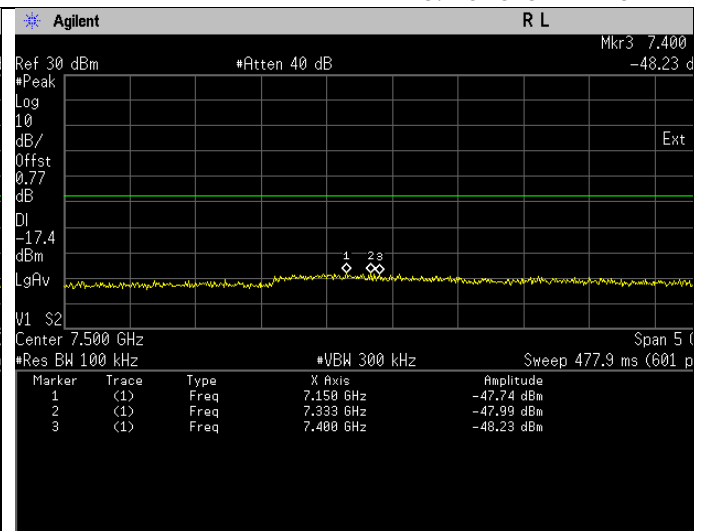
Frequency 2437 MHz. Reference Level.



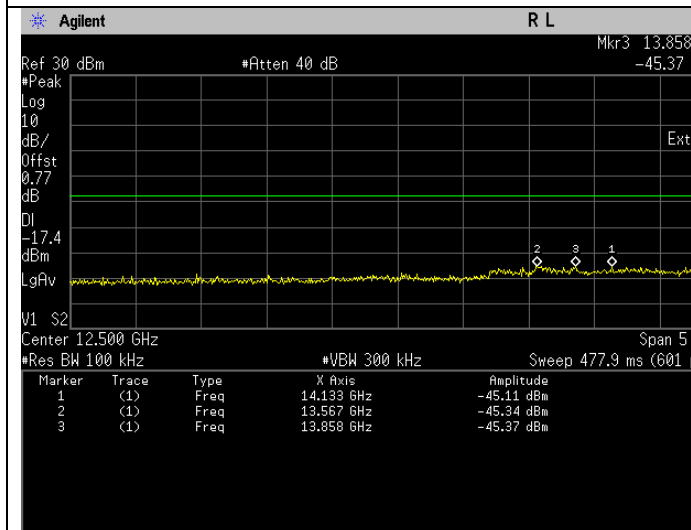
Frequency 2437 MHz. Emission Level, 30 MHz -> 1 GHz.



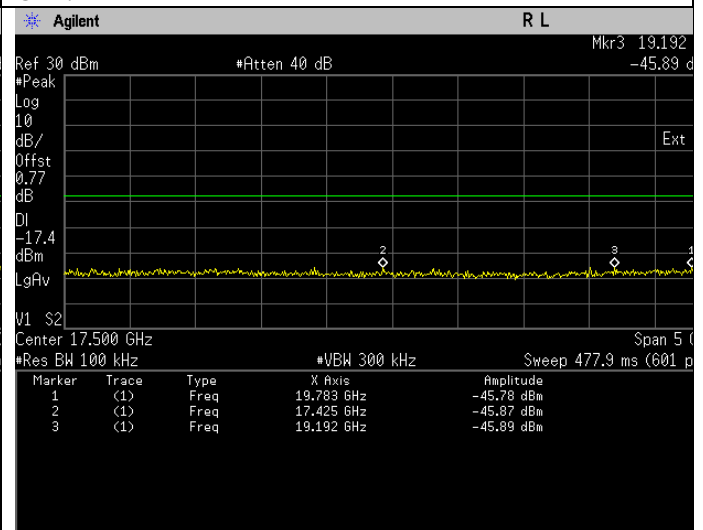
Frequency 2437 MHz. Emission Level, 1 GHz -> 5 GHz.



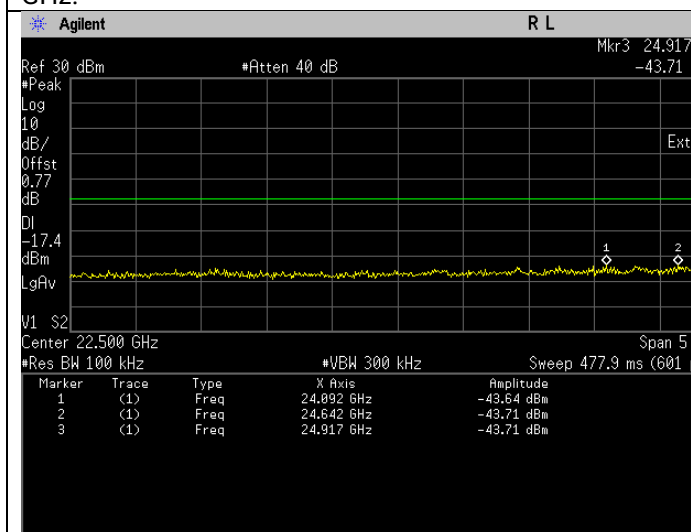
Frequency 2437 MHz. Emission Level, 5 GHz -> 10 GHz.



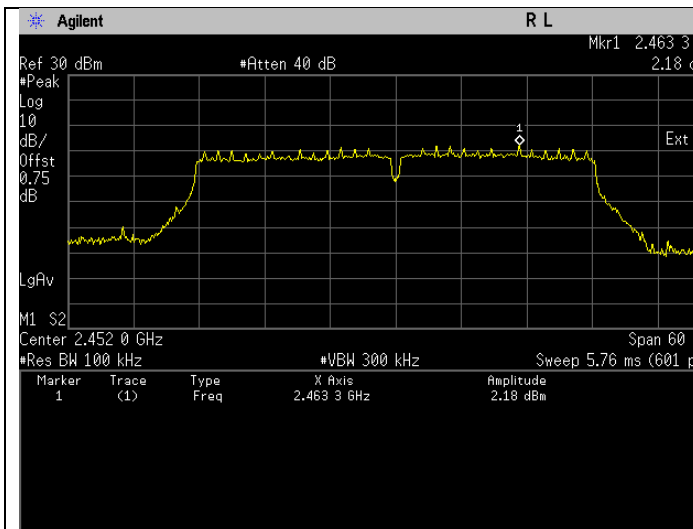
Frequency 2437 MHz. Emission Level, 10 GHz -> 15 GHz.



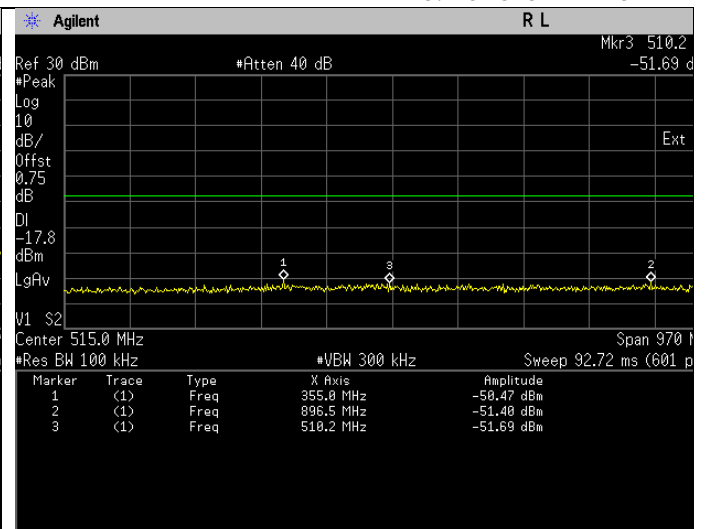
Frequency 2437 MHz. Emission Level, 15 GHz -> 20 GHz.



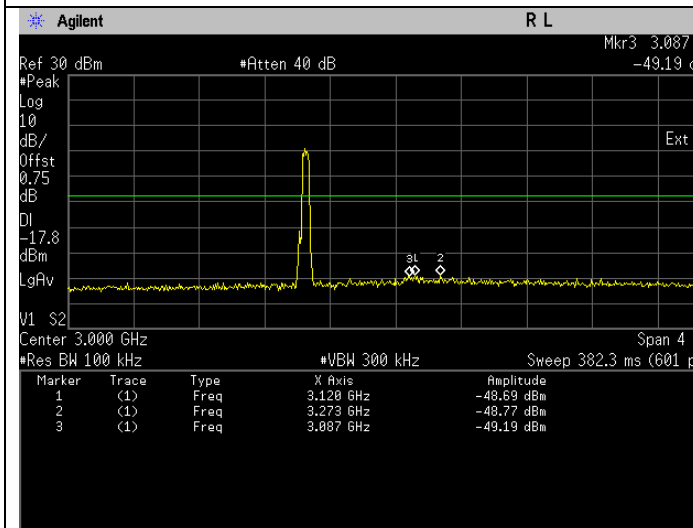
Frequency 2437 MHz Emission Level, 20 GHz -> 25 GHz.



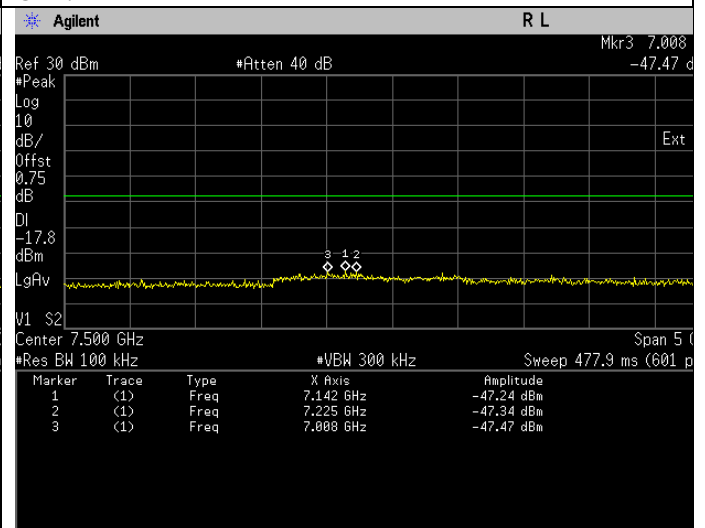
Frequency 2452 MHz. Reference Level.



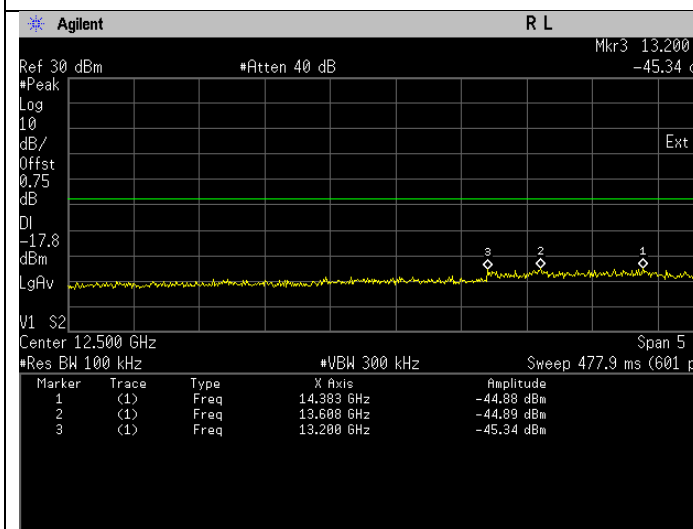
Frequency 2452 MHz. Emission Level, 30 MHz -> 1 GHz.



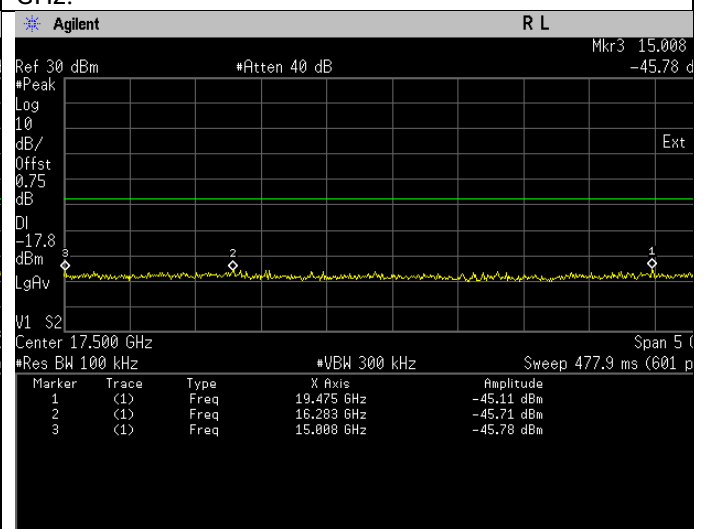
Frequency 2452 MHz. Emission Level, 1 GHz -> 5 GHz.



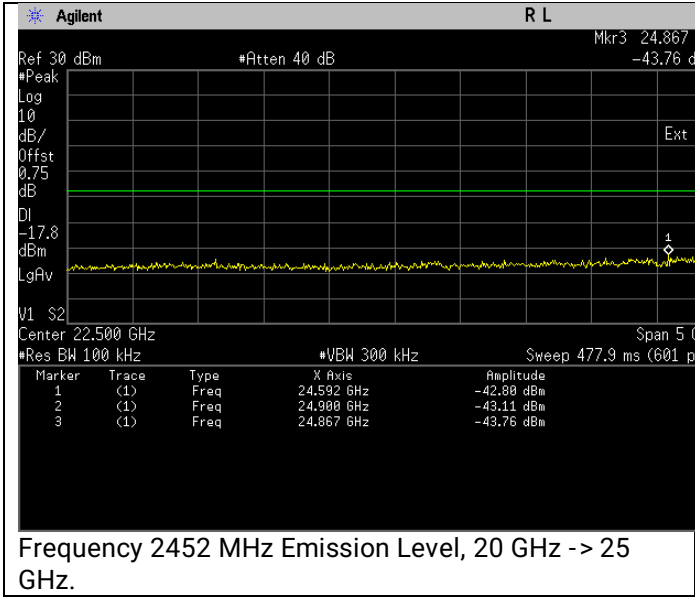
Frequency 2452 MHz. Emission Level, 5 GHz -> 10 GHz.



Frequency 2452 MHz. Emission Level, 10 GHz -> 15 GHz.

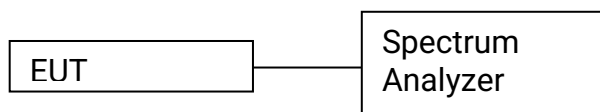


Frequency 2452 MHz. Emission Level, 15 GHz -> 20 GHz.



6.6. Band edge Conducted Spurious Emission

6.6.1. Test Setup



- a) Check and ensure the spectrum analyzer well calibrate.
- b) Turn on the DUT and set DUT to transmit maximum power.
- c) Connect DUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer :
 - a. RBW = 100 kHz
 - b. VBW = 300 kHz
 - c. Detector mode = Peak
 - d. Trace = Max Hold
 - e. Sweep = auto
- e) Use the peak marker function to measure highest emission.
- f) Measure every antenna port by repeat the step above for MIMO measurement.

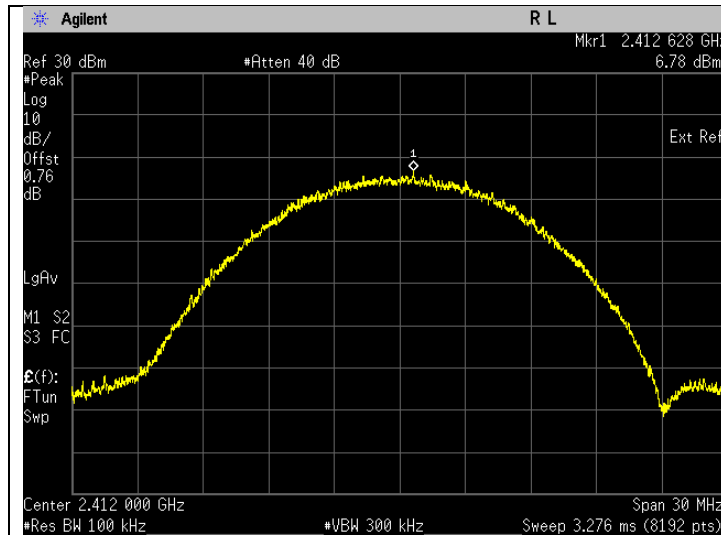
6.6.2. Test Limits:

Normal Condition (25 ° C)
Shall be at least 20 dB below max power. (Peak detector)

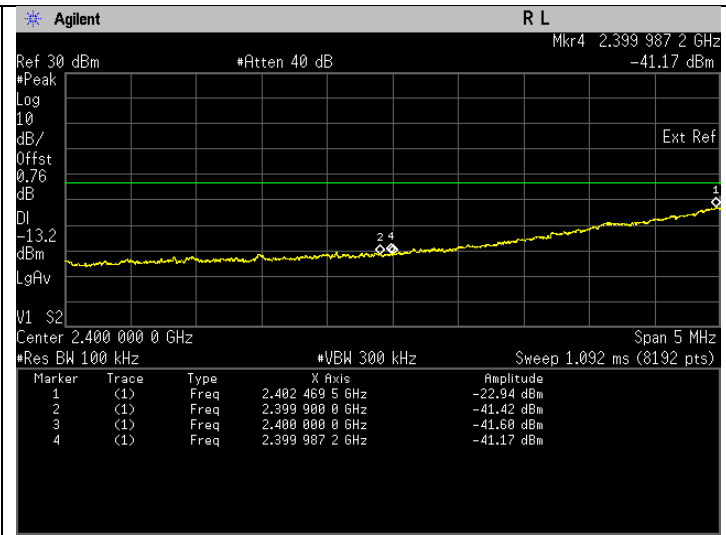
6.6.3. Test Result

802.11b

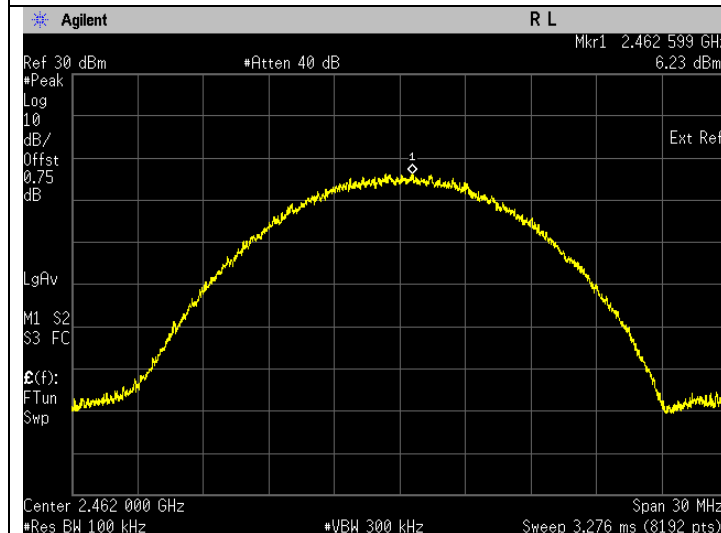
Test Conditions				Test Frequency	Results		
Standard	Modulation Type	Modulation Technology	Data Rate (mbps)	Tx (MHz)	Frequencies (MHz)	Power (dBm)	Status
802.11b	OFDM	BPSK	5.5	2412	2399.99	-41.17	Pass
802.11b	OFDM	BPSK	5.5	2462	2483.59	-50.35	Pass



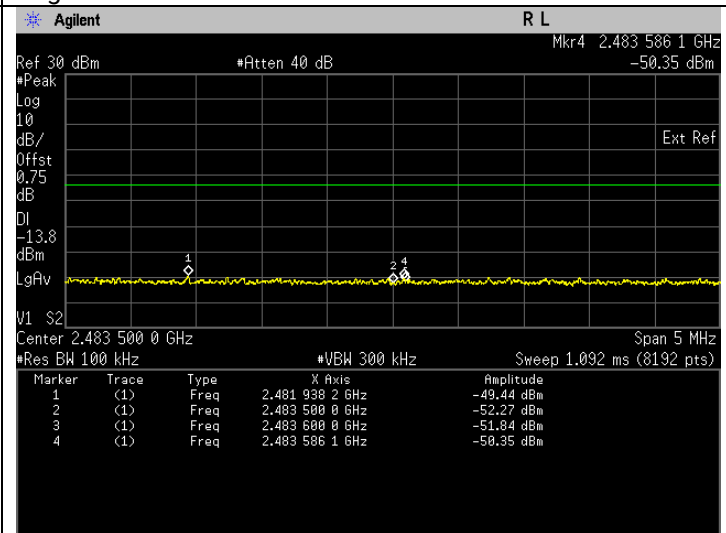
Band Edge(Peak). 802.11b Frequency 2412 MHz Reference Level.



Band Edge(Peak). 802.11b Frequency 2412 MHz Band Edge.



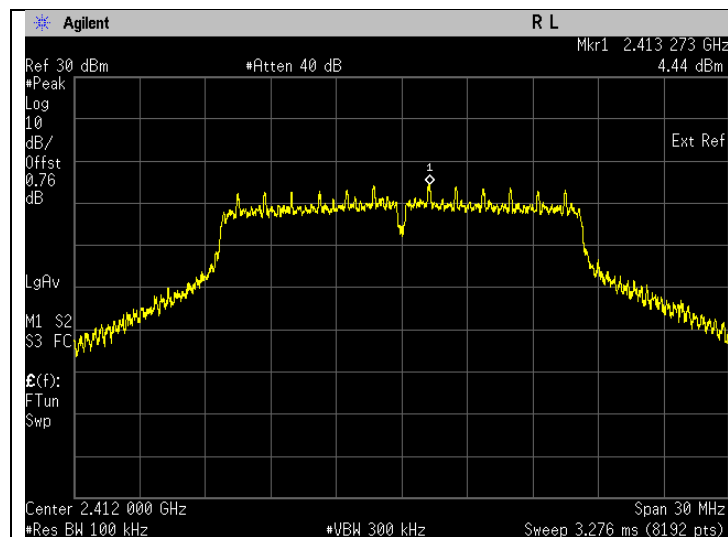
Band Edge(Peak). 802.11b Frequency 2462 MHz Reference Level.



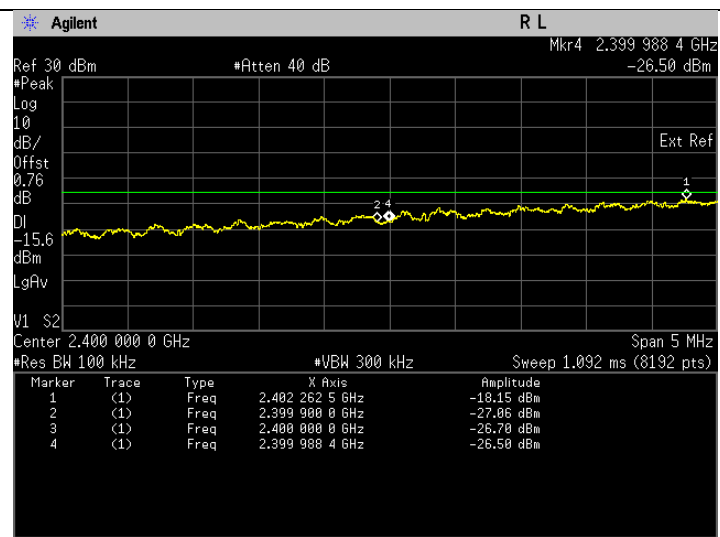
Band Edge(Peak). 802.11b Frequency 2462 MHz Band Edge.

802.11g

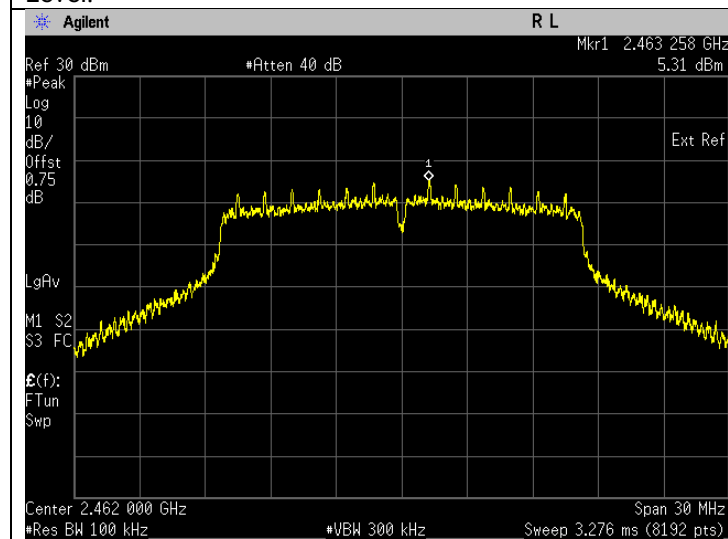
Test Conditions				Test Frequency	Results		
Standard	Modulation Type	Modulation Technology	Data Rate (mbps)	Tx (MHz)	Frequencies (MHz)	Power (dBm)	Status
802.11g	OFDM	BPSK	6	2412	2399.99	-26.50	Pass
802.11g	OFDM	BPSK	6	2462	2483.56	-47.04	Pass



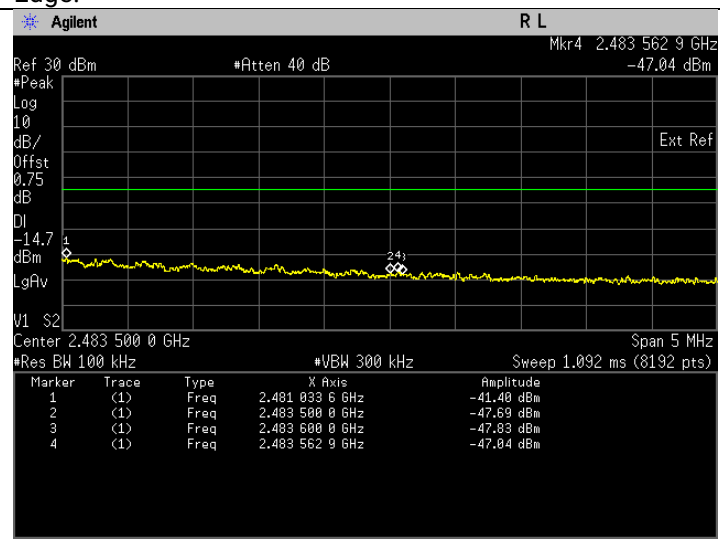
Band Edge(Peak). 802.11g Frequency 2412 MHz Reference Level.



Band Edge(Peak). 802.11g Frequency 2412 MHz Band Edge.



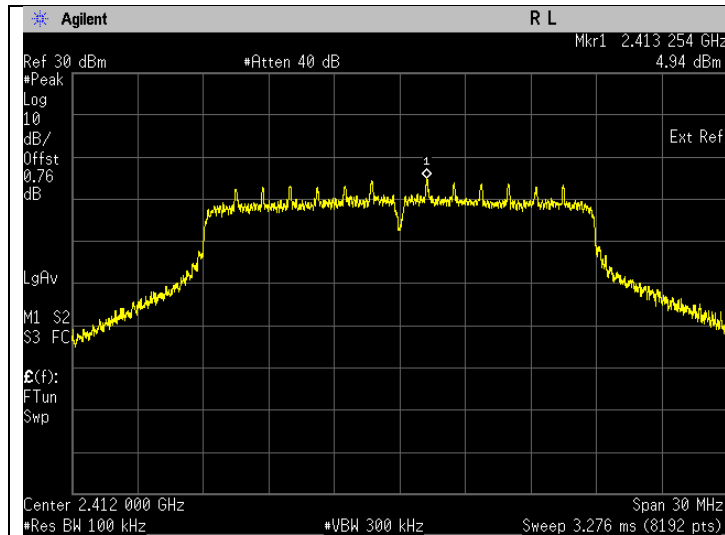
Band Edge(Peak). 802.11g Frequency 2462 MHz Reference Level.



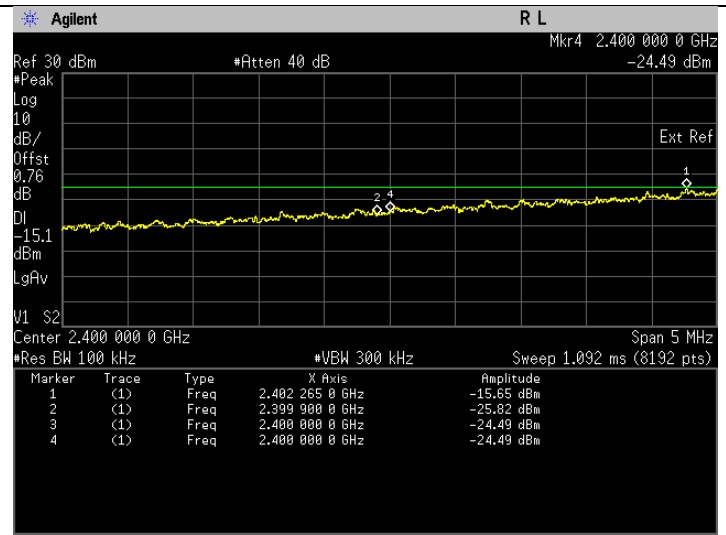
Band Edge(Peak). 802.11g Frequency 2462 MHz Band Edge.

802.11n (HT20)

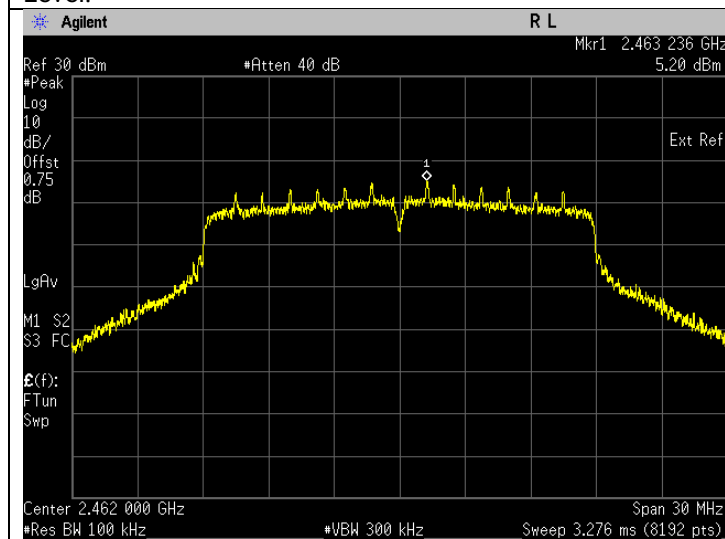
Test Conditions				Test Frequency	Results		
Standard	Modulation Type	Modulation Technology	Data Rate (mbps)	Tx (MHz)	Frequencies (MHz)	Power (dBm)	Status
802.11n	OFDM	BPSK	6.5	2412	2400.00	-24.49	Pass
802.11n	OFDM	BPSK	6.5	2462	2483.59	-46.72	Pass



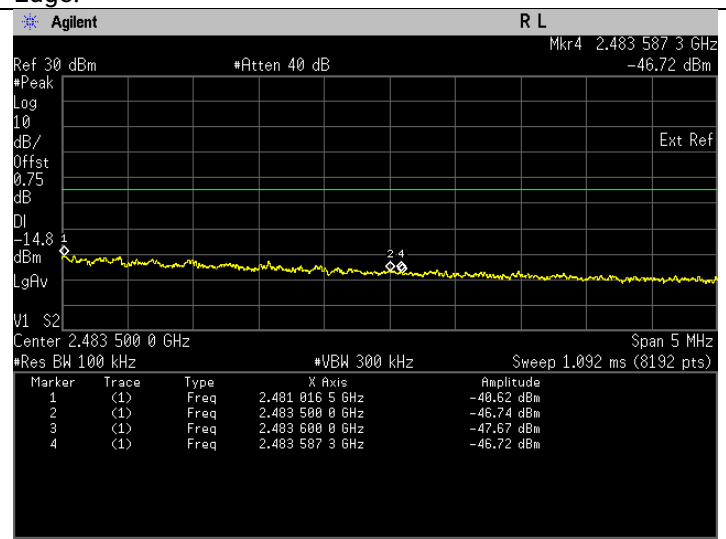
Band Edge(Peak). 802.11n Frequency 2412 MHz Reference Level.



Band Edge(Peak). 802.11n Frequency 2412 MHz Band Edge.



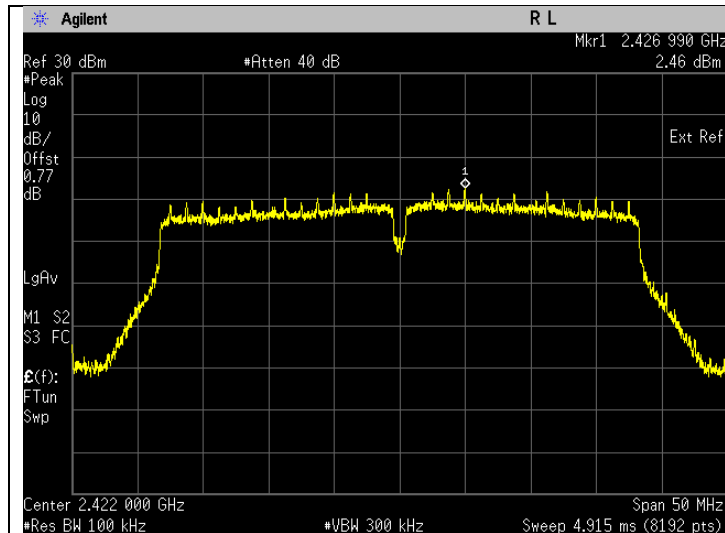
Band Edge(Peak). 802.11n Frequency 2462 MHz Reference Level.



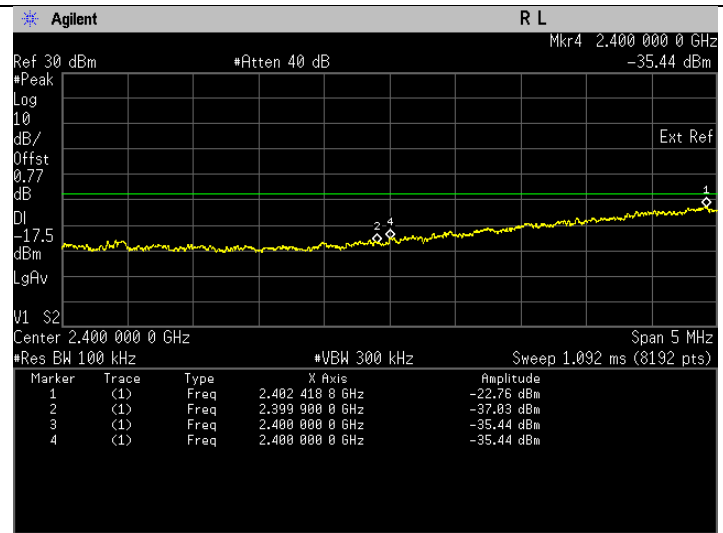
Band Edge(Peak). 802.11n Frequency 2462 MHz Band Edge.

802.11n (HT40)

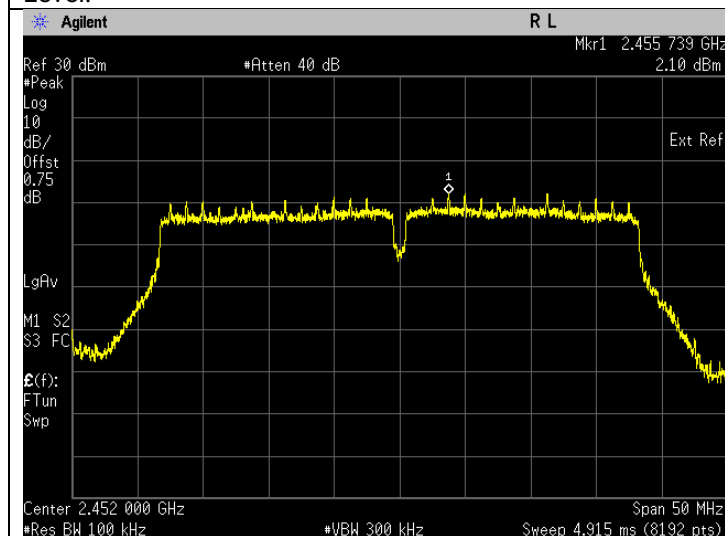
Test Conditions				Test Frequency	Results		
Standard	Modulation Type	Modulation Technology	Data Rate (mbps)	Tx (MHz)	Frequencies (MHz)	Power (dBm)	Status
802.11n	OFDM	BPSK	13.5	2422	2400.00	-35.44	Pass
802.11n	OFDM	BPSK	13.5	2452	2483.54	-40.50	Pass



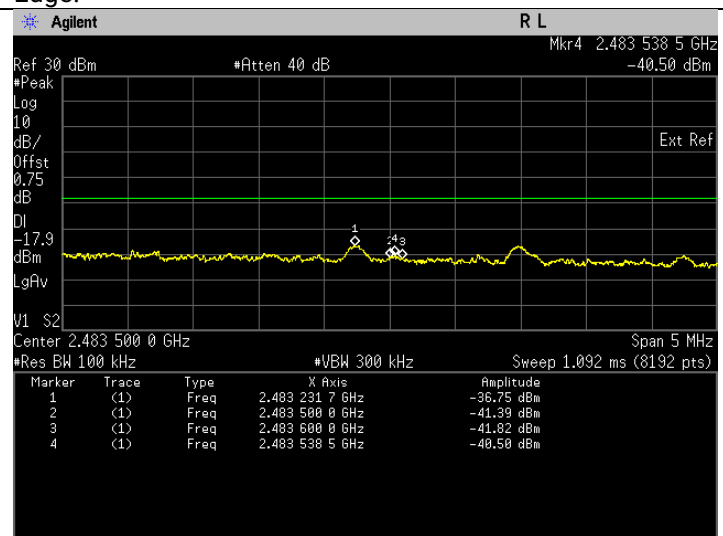
Band Edge(Peak). 802.11n Frequency 2422 MHz Reference Level.



Band Edge(Peak). 802.11n Frequency 2422 MHz Band Edge.



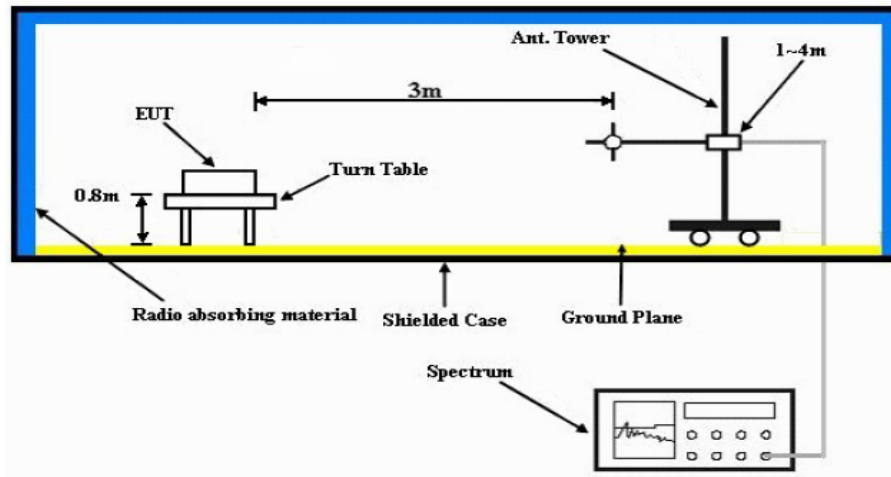
Band Edge(Peak). 802.11n Frequency 2452 MHz Reference Level.



Band Edge(Peak). 802.11n Frequency 2452 MHz Band Edge.

6.7. Radiated Emission within restricted Bands

6.7.1. Test Setup



- The EUT is placed on the top of a rotating table 0.8m above the ground (<1GHz) and 1.5m above the ground (>1GHz) at a 3m semi-anechoic chamber. The table is rotated 360 degrees to determine the position of the highest radiation.
- The EUT is set 3m away from the interference-receiving antenna, which is mounted on the top of a variable-height antenna tower.
- The antenna is Bilog/Horn antenna depend on which frequency range uses, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT is arranged to its worst case and then the antenna is tuned to heights from 1m to 4m and the rotatable table is turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system is set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode is fall within the range of 10dB from the limit specified, the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. Otherwise, the testing could be stopped and the peak values of the EUT would be reported.

NOTE:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1 GHz.
- All modes of operation were investigated and the worst-case emissions are reported.

6.7.2. Test Limits:

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power.

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

NOTE:

- The lower limit shall apply at the transition frequencies.
- Emission level (dBuV/m) = 20 log Emission level (uV/m).
- For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

6.7.3. Test Data:

SAC TX Restricted Band-edge : 1490N00-EMC-00037

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	Wifi 2.4 GHz 802.11b	Channel SP/Bandwidth (kHz) :	20000.0000
Test Frequency (MHz) :	2412.0000	Softpot Power :	15.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Horizontal	Peak	2366.0640	47.02 *	74.00	26.98
Vertical	Peak	2377.9720	46.73 *	74.00	27.27
Vertical	Average	2390.0000	34.38	54.00	19.62
Horizontal	Average	2390.0000	34.09	54.00	19.91
Vertical	Peak	2390.0000	44.54 *	74.00	29.46
Horizontal	Peak	2390.0000	44.60 *	74.00	29.40

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Sun, 22 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

Remarks:

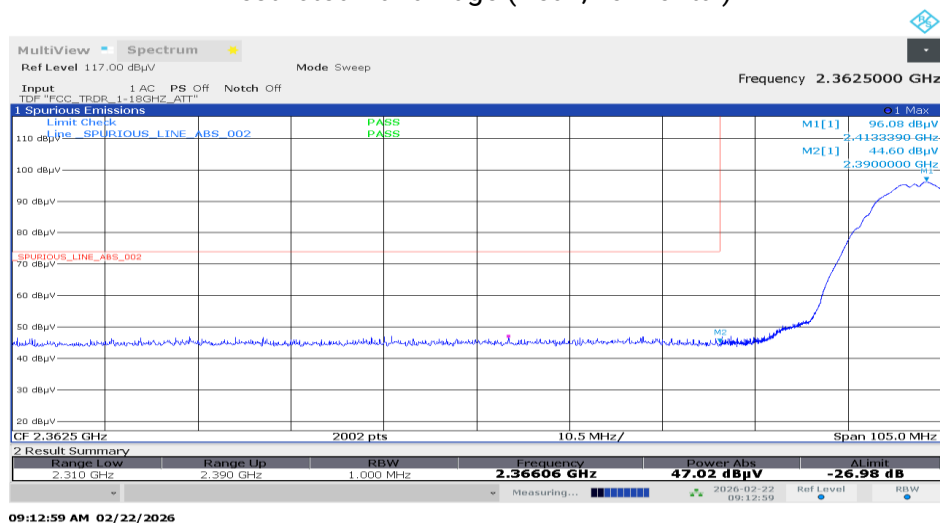
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

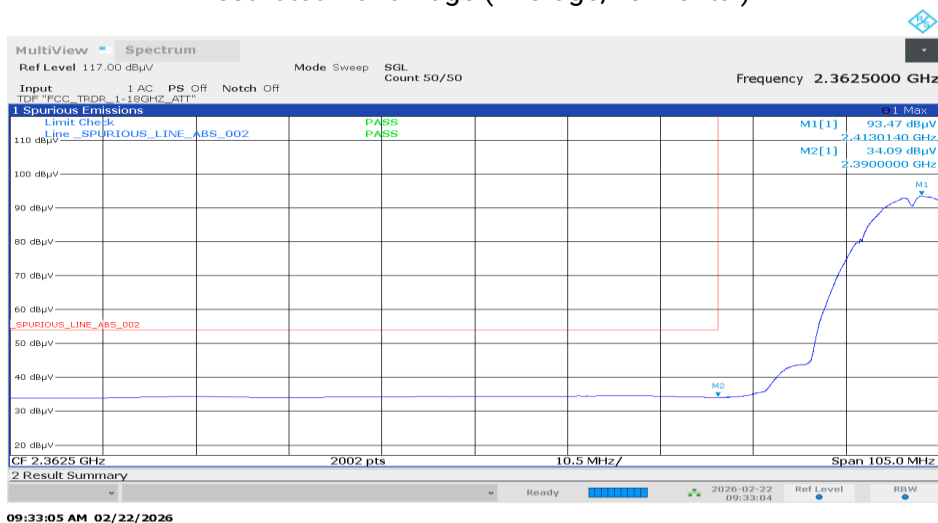
Restricted Band Edge (Peak,Horizontal)



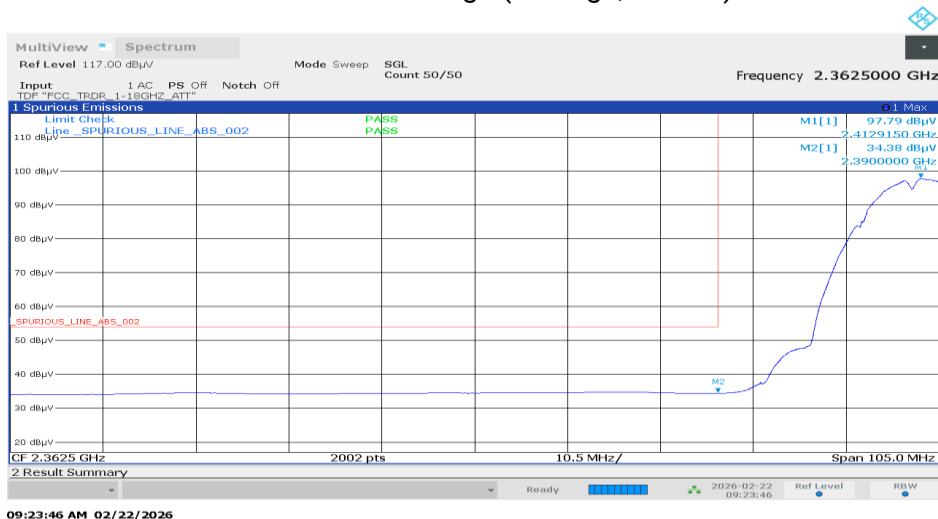
Restricted Band Edge (Peak,Vertical)



Restricted Band Edge (Average,Horizontal)



Restricted Band Edge (Average,Vertical)



Motorola Solutions

SAC TX Restricted Band-edge : 1490N00-EMC-00037

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	Wifi 2.4 GHz 802.11b	Channel SP/Bandwidth (kHz) :	20000.0000
Test Frequency (MHz) :	2462.0000	Softpot Power :	15.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Average	2483.5000	36.02	54.00	17.98
Horizontal	Average	2483.5000	34.57	54.00	19.43
Vertical	Peak	2483.5000	44.90 *	74.00	29.10
Horizontal	Peak	2483.5000	43.65 *	74.00	30.35
Horizontal	Peak	2486.2280	46.20 *	74.00	27.80
Horizontal	Peak	2488.2560	46.34 *	74.00	27.66
Vertical	Peak	2488.8820	47.41 *	74.00	26.59
Horizontal	Peak	2489.3760	46.05 *	74.00	27.95
Horizontal	Peak	2489.9860	46.16 *	74.00	27.84
Horizontal	Peak	2491.7170	46.34 *	74.00	27.66
Vertical	Peak	2492.8380	46.15 *	74.00	27.85
Horizontal	Peak	2493.2830	47.07 *	74.00	26.93
Vertical	Peak	2493.4970	45.97 *	74.00	28.03
Vertical	Peak	2494.5190	45.78 *	74.00	28.22
Vertical	Peak	2494.7330	46.06 *	74.00	27.94
Vertical	Peak	2495.5250	46.36 *	74.00	27.64
Vertical	Peak	2496.7940	46.10 *	74.00	27.90
Vertical	Peak	2497.0080	45.64 *	74.00	28.36
Horizontal	Peak	2497.9150	46.17 *	74.00	27.83
Vertical	Peak	2499.3330	45.73 *	74.00	28.27
Horizontal	Peak	2499.4970	45.97 *	74.00	28.03
Horizontal	Peak	2499.8270	46.50 *	74.00	27.50
Vertical	Peak	2499.8760	44.69 *	74.00	29.31
Horizontal	Peak	2499.9590	45.46 *	74.00	28.54

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Sun, 22 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

Remarks:

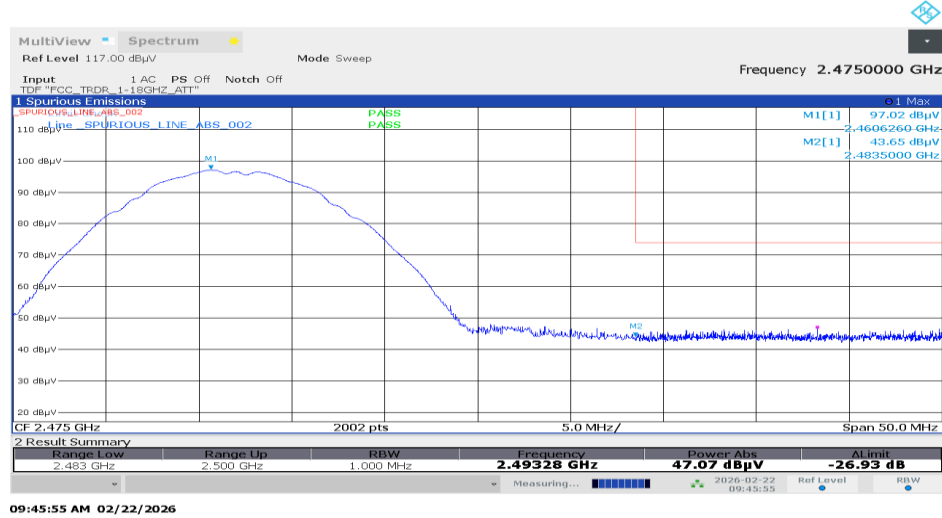
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

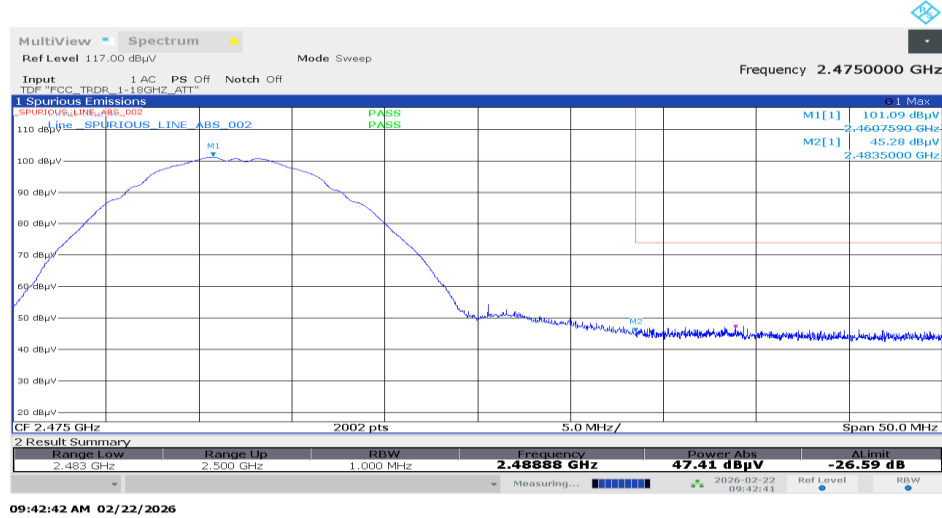
NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

Restricted Band Edge (Peak,Horizontal)



Restricted Band Edge (Peak,Vertical)



Restricted Band Edge (Average,Horizontal)



Restricted Band Edge (Average,Vertical)



SAC TX Restricted Band-edge : 1490N00-EMC-00037

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	Wifi 2.4 GHz 802.11g	Channel SP/Bandwidth (kHz) :	20000.0000
Test Frequency (MHz) :	2412.0000	Softpot Power :	15.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Horizontal	Peak	2356.1540	47.58 *	74.00	26.42
Vertical	Peak	2389.8800	49.27 *	74.00	24.73
Vertical	Average	2390.0000	36.15	54.00	17.85
Horizontal	Average	2390.0000	36.03	54.00	17.97
Vertical	Peak	2390.0000	49.26 *	74.00	24.74
Horizontal	Peak	2390.0000	46.35 *	74.00	27.65

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Sun, 22 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

Remarks:

** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

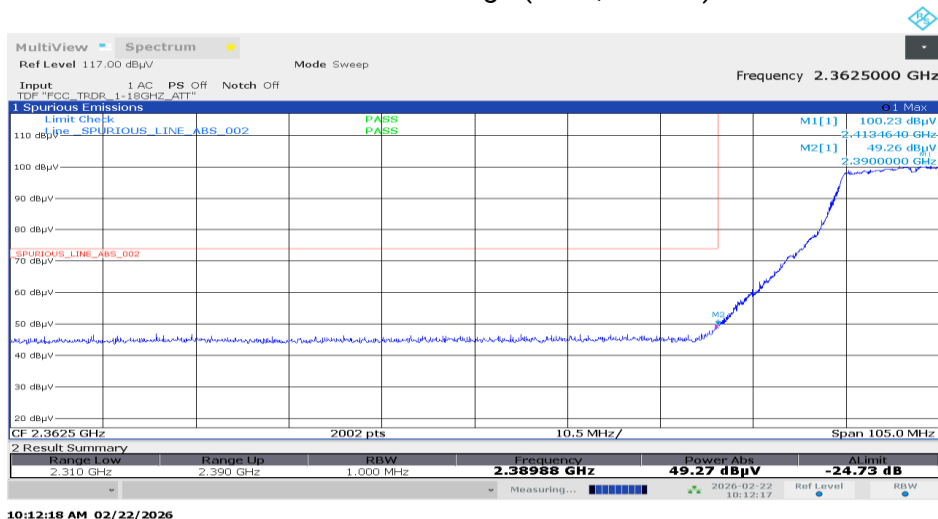
NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

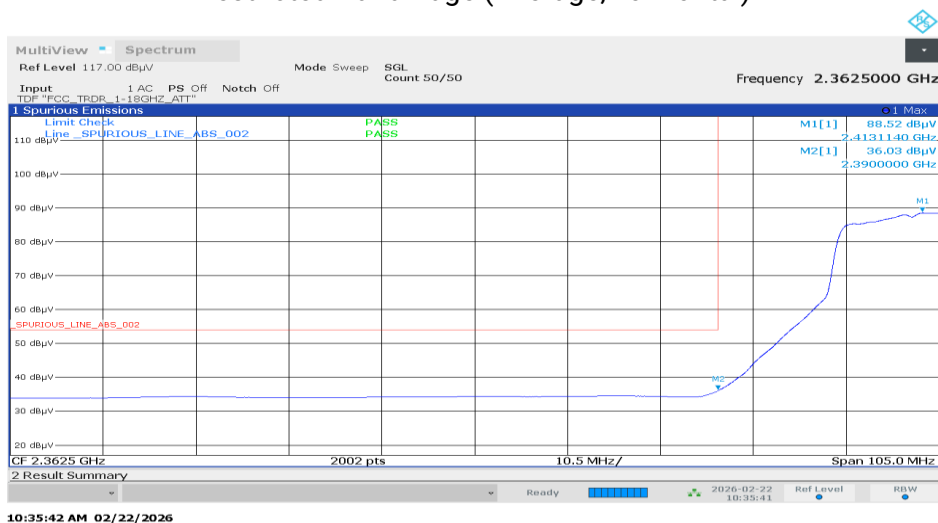
Restricted Band Edge (Peak,Horizontal)



Restricted Band Edge (Peak,Vertical)



Restricted Band Edge (Average,Horizontal)



Restricted Band Edge (Average,Vertical)



Motorola Solutions

SAC TX Restricted Band-edge : 1490N00-EMC-00037

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	Wifi 2.4 GHz 802.11g	Channel SP/Bandwidth (kHz) :	20000.0000
Test Frequency (MHz) :	2462.0000	Softpot Power :	15.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Average	2483.5000	36.81	54.00	17.19
Horizontal	Average	2483.5000	37.17	54.00	16.83
Vertical	Peak	2483.5000	50.99 *	74.00	23.01
Horizontal	Peak	2483.5000	46.12 *	74.00	27.88
Horizontal	Peak	2484.9420	46.79 *	74.00	27.21
Horizontal	Peak	2485.6020	46.25 *	74.00	27.75
Vertical	Peak	2486.4590	52.38 *	74.00	21.62
Horizontal	Peak	2486.5740	45.92 *	74.00	28.08
Horizontal	Peak	2487.8760	46.20 *	74.00	27.80
Horizontal	Peak	2490.1350	46.68 *	74.00	27.32
Horizontal	Peak	2492.4260	45.95 *	74.00	28.05
Horizontal	Peak	2493.2330	46.13 *	74.00	27.87
Vertical	Peak	2495.1790	45.78 *	74.00	28.22
Horizontal	Peak	2495.8210	46.35 *	74.00	27.65
Vertical	Peak	2496.0850	45.42 *	74.00	28.58
Horizontal	Peak	2496.1020	45.68 *	74.00	28.32
Vertical	Peak	2496.7780	46.67 *	74.00	27.33
Vertical	Peak	2496.8440	45.65 *	74.00	28.35
Vertical	Peak	2497.0580	45.80 *	74.00	28.20
Vertical	Peak	2497.8650	45.07 *	74.00	28.93
Vertical	Peak	2498.7890	45.75 *	74.00	28.25
Vertical	Peak	2499.1510	47.00 *	74.00	27.00
Vertical	Peak	2499.8600	46.21 *	74.00	27.79
Horizontal	Peak	2499.9920	43.49 *	74.00	30.51

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Sun, 22 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

Remarks:

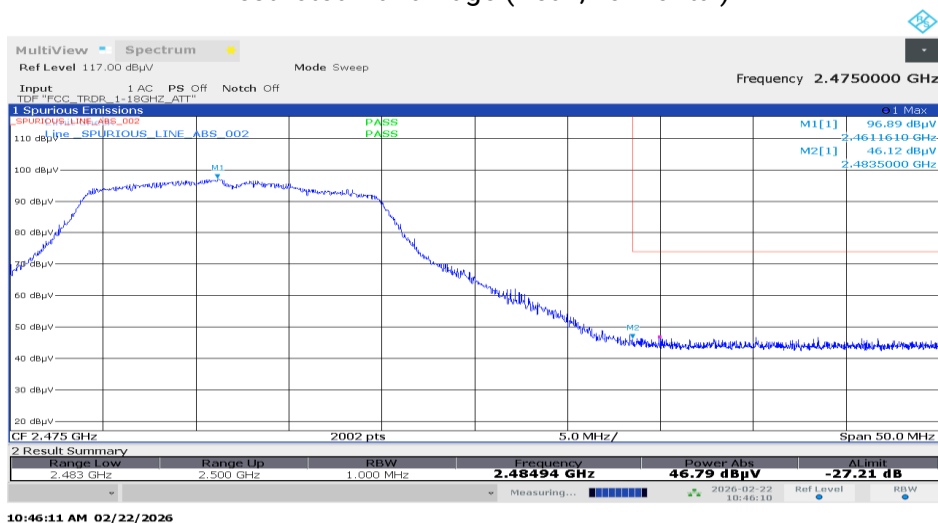
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

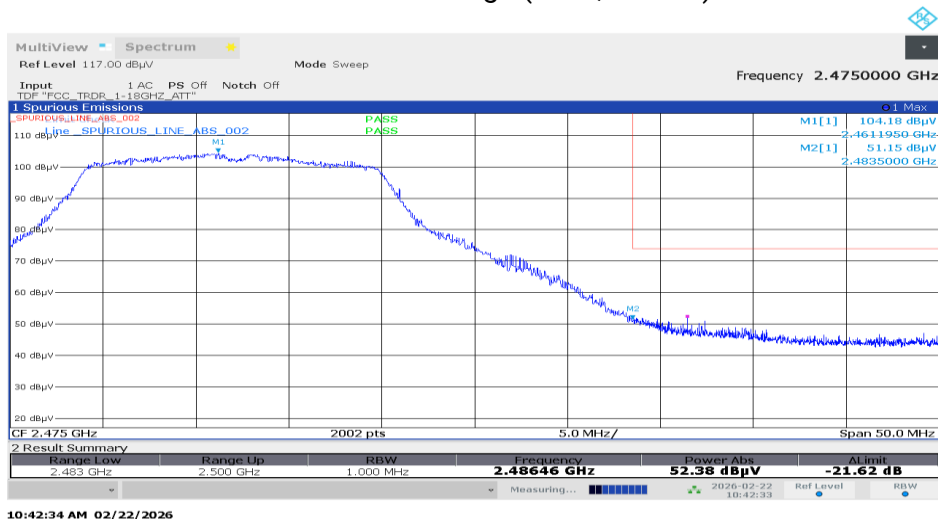
NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

Restricted Band Edge (Peak,Horizontal)



Restricted Band Edge (Peak,Vertical)



Restricted Band Edge (Average,Horizontal)



Restricted Band Edge (Average,Vertical)



SAC TX Restricted Band-edge : 1490N00-EMC-00037

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	Wifi 2.4 GHz 802.11n	Channel SP/Bandwidth (kHz) :	20000.0000
Test Frequency (MHz) :	2412.0000	Softpot Power :	15.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Horizontal	Peak	2389.6400	50.27 *	74.00	23.73
Vertical	Peak	2389.9600	50.54 *	74.00	23.46
Vertical	Average	2390.0000	37.36	54.00	16.64
Horizontal	Average	2390.0000	37.15	54.00	16.85
Vertical	Peak	2390.0000	50.96 *	74.00	23.04
Horizontal	Peak	2390.0000	50.59 *	74.00	23.41

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Sun, 22 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

Remarks:

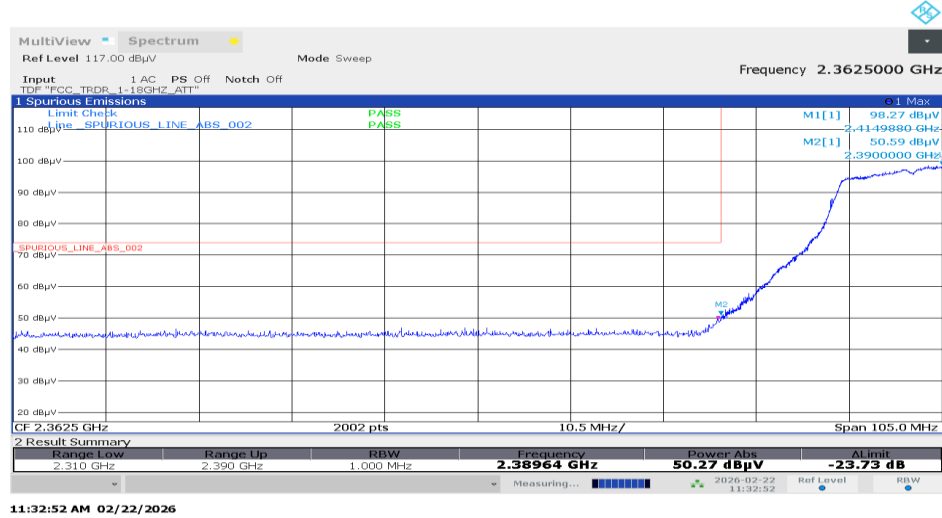
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

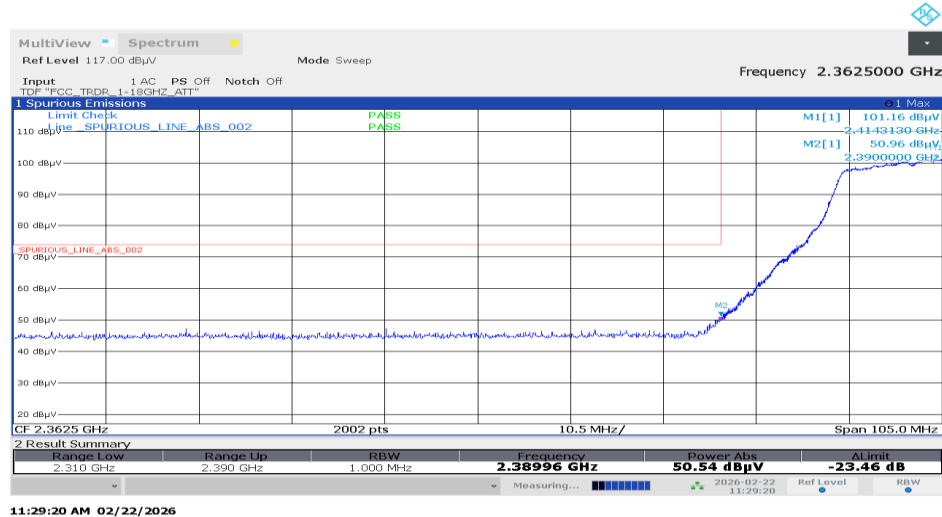
NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

Restricted Band Edge (Peak,Horizontal)



Restricted Band Edge (Peak,Vertical)



Restricted Band Edge (Average,Horizontal)



Restricted Band Edge (Average,Vertical)



Motorola Solutions

SAC TX Restricted Band-edge : 1490N00-EMC-00037

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	Wifi 2.4 GHz 802.11n	Channel SP/Bandwidth (kHz) :	20000.0000
Test Frequency (MHz) :	2462.0000	Softpot Power :	15.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Average	2483.5000	41.94	54.00	12.06
Horizontal	Average	2483.5000	39.83	54.00	14.17
Vertical	Peak	2483.5000	50.11 *	74.00	23.89
Horizontal	Peak	2483.5000	47.10 *	74.00	26.90
Vertical	Peak	2483.6560	51.91 *	74.00	22.09
Horizontal	Peak	2483.8710	49.82 *	74.00	24.18
Horizontal	Peak	2492.3760	46.43 *	74.00	27.57
Horizontal	Peak	2492.8050	45.76 *	74.00	28.24
Vertical	Peak	2493.1510	46.37 *	74.00	27.63
Horizontal	Peak	2494.7330	46.12 *	74.00	27.88
Vertical	Peak	2495.5580	46.46 *	74.00	27.54
Vertical	Peak	2495.7890	46.86 *	74.00	27.14
Horizontal	Peak	2495.8210	45.98 *	74.00	28.02
Vertical	Peak	2496.1180	46.39 *	74.00	27.61
Vertical	Peak	2497.0740	45.92 *	74.00	28.08
Vertical	Peak	2497.3540	46.10 *	74.00	27.90
Horizontal	Peak	2497.8820	46.95 *	74.00	27.05
Horizontal	Peak	2498.4090	45.86 *	74.00	28.14
Vertical	Peak	2498.5910	45.93 *	74.00	28.07
Horizontal	Peak	2498.6730	45.78 *	74.00	28.22
Horizontal	Peak	2498.9700	45.76 *	74.00	28.24
Vertical	Peak	2499.7610	46.03 *	74.00	27.97
Horizontal	Peak	2499.7610	45.35 *	74.00	28.65
Vertical	Peak	2499.8760	45.70 *	74.00	28.30

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Sun, 22 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

Remarks:

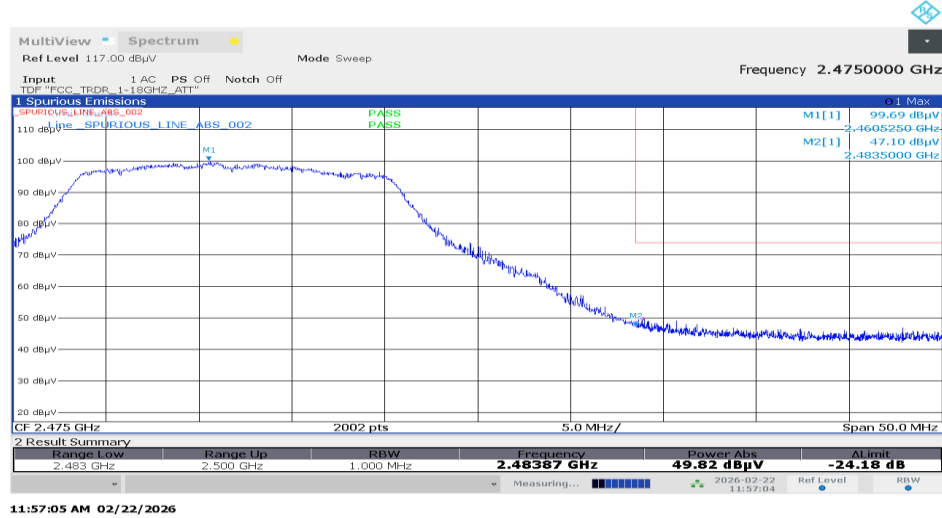
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

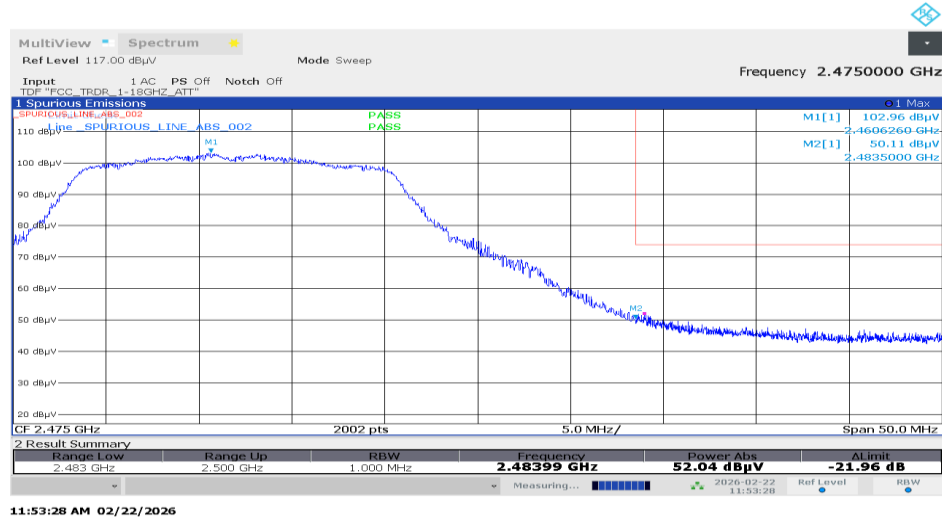
NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

Restricted Band Edge (Peak,Horizontal)



Restricted Band Edge (Peak,Vertical)



Restricted Band Edge (Average,Horizontal)



Restricted Band Edge (Average,Vertical)



SAC TX Restricted Band-edge : 1490N00-EMC-00037

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	Wifi 2.4 GHz 802.11n	Channel SP/Bandwidth (kHz) :	40000.0000
Test Frequency (MHz) :	2422.0000	Softpot Power :	14.50
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Peak	2389.8800	51.51 *	74.00	22.49
Horizontal	Peak	2389.8800	50.72 *	74.00	23.28
Vertical	Average	2389.9600	42.63	54.00	11.37
Vertical	Average	2390.0000	43.27	54.00	10.73
Horizontal	Average	2390.0000	41.77	54.00	12.23
Vertical	Peak	2390.0000	51.94 *	74.00	22.06
Horizontal	Peak	2390.0000	49.45 *	74.00	24.55

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Tue, 24 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

Remarks:

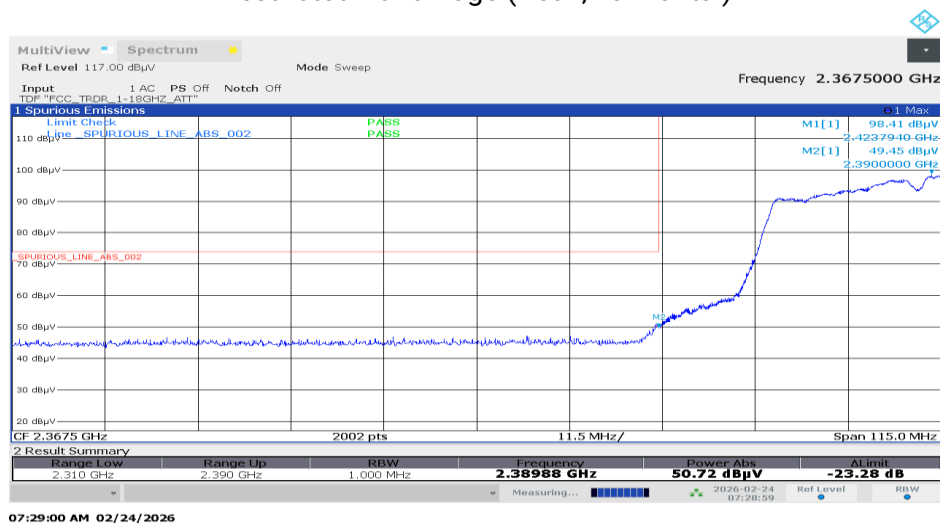
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

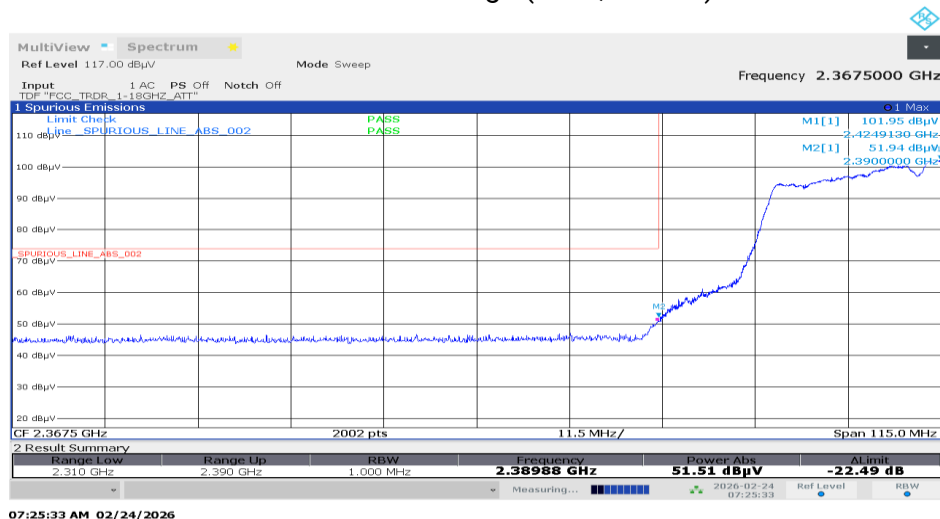
NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

Restricted Band Edge (Peak,Horizontal)



Restricted Band Edge (Peak,Vertical)



Restricted Band Edge (Average,Horizontal)



Restricted Band Edge (Average,Vertical)



Motorola Solutions

SAC TX Restricted Band-edge : 1490N00-EMC-00037

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	Wifi 2.4 GHz 802.11n	Channel SP/Bandwidth (kHz) :	40000.0000
Test Frequency (MHz) :	2452.0000	Softpot Power :	14.50
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)
Vertical	Average	2483.5000	45.55	54.00	8.45
Horizontal	Average	2483.5000	43.06	54.00	10.94
Vertical	Peak	2483.5000	57.40	74.00	16.60
Horizontal	Peak	2483.5000	52.34 *	74.00	21.66
Vertical	Average	2483.5080	45.55	54.00	8.45
Horizontal	Average	2483.5080	43.06	54.00	10.94
Horizontal	Peak	2483.8710	54.11	74.00	19.89
Vertical	Peak	2484.9260	58.76	74.00	15.24
Vertical	Average	2486.1950	42.05	54.00	11.95
Vertical	Average	2486.2610	42.16	54.00	11.84
Vertical	Average	2486.4420	42.01	54.00	11.99
Horizontal	Peak	2492.9700	46.73 *	74.00	27.27
Horizontal	Peak	2493.5300	46.57 *	74.00	27.43
Horizontal	Peak	2494.6840	46.09 *	74.00	27.91
Vertical	Peak	2494.7330	46.48 *	74.00	27.52
Vertical	Peak	2495.4590	45.38 *	74.00	28.62
Vertical	Peak	2495.5250	45.81 *	74.00	28.19
Horizontal	Peak	2496.1510	46.42 *	74.00	27.58
Horizontal	Peak	2496.4150	46.41 *	74.00	27.59
Vertical	Peak	2496.5140	45.60 *	74.00	28.40
Horizontal	Peak	2497.4700	46.68 *	74.00	27.32
Vertical	Peak	2497.8650	45.74 *	74.00	28.26
Horizontal	Peak	2498.0470	45.95 *	74.00	28.05
Vertical	Peak	2498.4090	46.71 *	74.00	27.29
Vertical	Peak	2498.9530	45.26 *	74.00	28.74
Vertical	Peak	2499.3160	45.56 *	74.00	28.44
Horizontal	Peak	2499.3650	45.89 *	74.00	28.11
Vertical	Peak	2499.7940	46.01 *	74.00	27.99
Horizontal	Peak	2499.9590	45.04 *	74.00	28.96

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Sun, 22 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

Remarks:

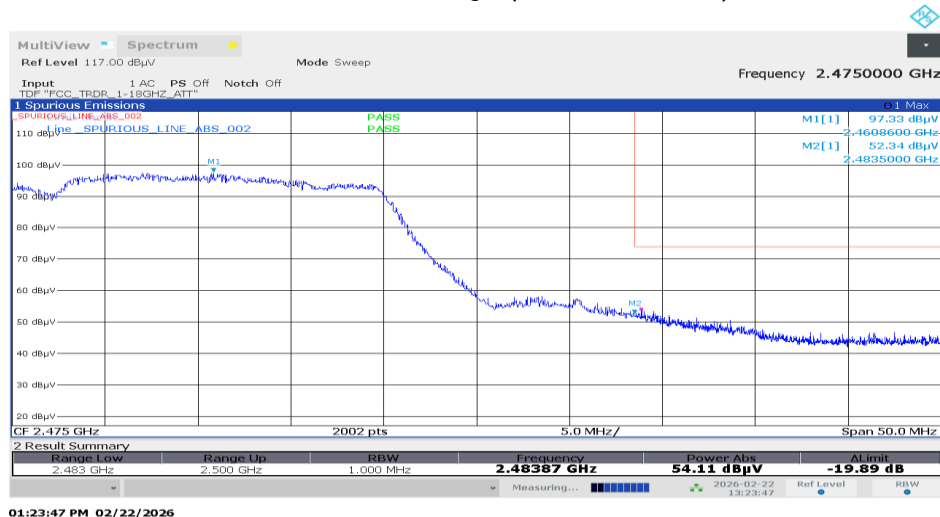
** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

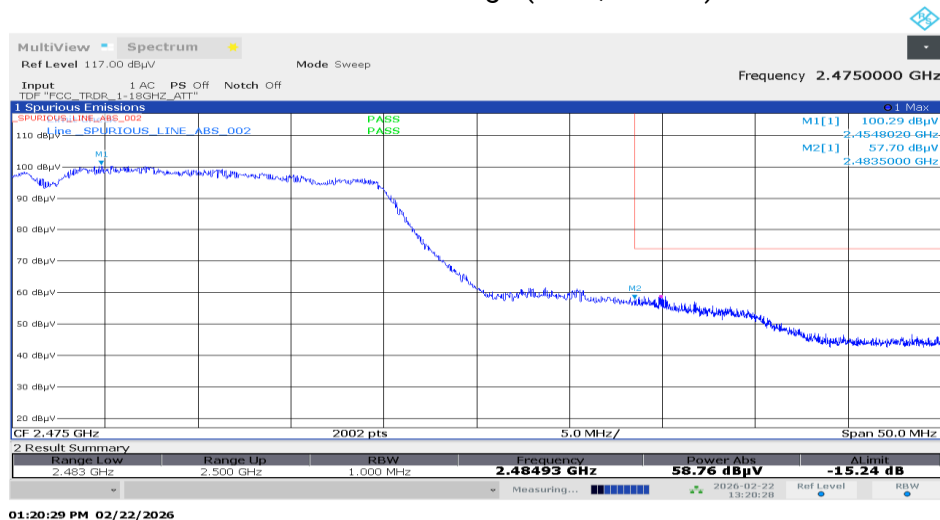
NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.

Restricted Band Edge (Peak,Horizontal)



Restricted Band Edge (Peak,Vertical)



Restricted Band Edge (Average,Horizontal)



Restricted Band Edge (Average,Vertical)



SAC TX Radiated Emission : 1490N00-EMC-00037

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	Wifi 2.4 GHz 802.11b	Channel SP/Bandwidth (kHz) :	20000.0000
Test Frequency (MHz) :	2412.0000	Softpot Power :	15.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Peak	4824.0000	42.63 **	-	74.00	31.37
Horizontal	Peak	4824.0000	41.95 **	-	74.00	32.05
Vertical	Peak	7236.0000	42.61 **	95.65	75.65	33.05
Horizontal	Peak	7236.0000	44.77 **	95.65	75.65	30.88
Vertical	Peak	9648.0000	44.90 **	95.65	75.65	30.75
Horizontal	Peak	9648.0000	44.16 **	95.65	75.65	31.50
Vertical	Peak	12060.0000	45.79 **	-	74.00	28.21
Horizontal	Peak	12060.0000	47.09 **	-	74.00	26.91
Vertical	Peak	14472.0000	48.54 **	-	74.00	25.46
Horizontal	Peak	14472.0000	47.91 **	-	74.00	26.09
Vertical	Peak	16884.0000	48.59 **	95.65	75.65	27.06
Horizontal	Peak	16884.0000	48.73 **	95.65	75.65	26.92
Vertical	Peak	19296.0000	39.48 **	-	74.00	34.52
Horizontal	Peak	19296.0000	40.48 **	-	74.00	33.52
Vertical	Peak	21708.0000	40.59 **	95.65	75.65	35.07
Horizontal	Peak	21708.0000	38.59 **	95.65	75.65	37.06
Vertical	Peak	24120.0000	40.64 **	95.65	75.65	35.01
Horizontal	Peak	24120.0000	40.79 **	95.65	75.65	34.87

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Mon, 23 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

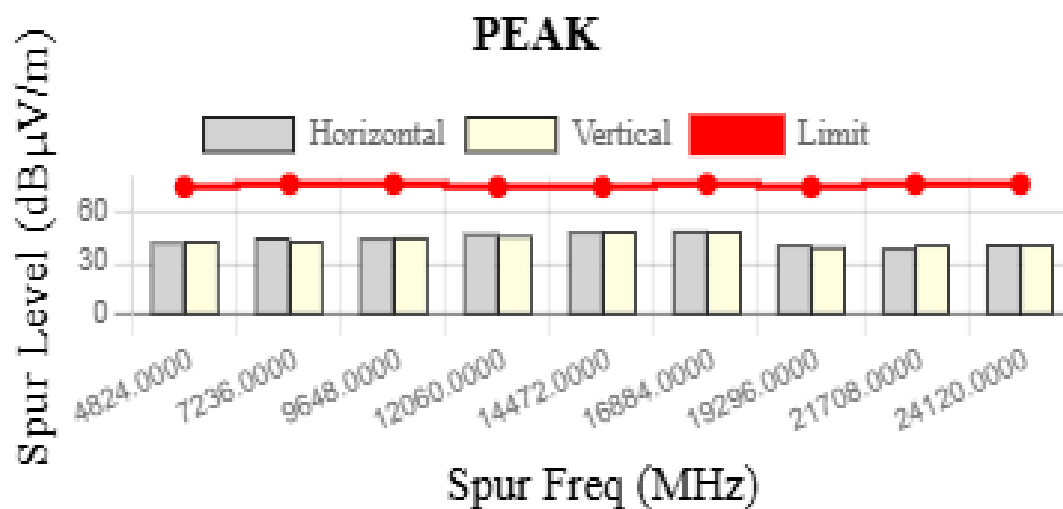
Remarks:

** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



Motorola Solutions

SAC TX Radiated Emission : 1490N00-EMC-00037

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	Wifi 2.4 GHz 802.11b	Channel SP/Bandwidth (kHz) :	20000.0000
Test Frequency (MHz) :	2437.0000	Softpot Power :	15.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Peak	4874.0000	40.82 **	-	74.00	33.18
Horizontal	Peak	4874.0000	41.01 **	-	74.00	32.99
Vertical	Peak	7311.0000	42.02 **	-	74.00	31.98
Horizontal	Peak	7311.0000	43.47 **	-	74.00	30.53
Vertical	Peak	9748.0000	43.19 **	95.65	75.65	32.46
Horizontal	Peak	9748.0000	44.88 **	95.65	75.65	30.77
Vertical	Peak	12185.0000	44.12 **	-	74.00	29.88
Horizontal	Peak	12185.0000	45.45 **	-	74.00	28.55
Vertical	Peak	14622.0000	49.42 **	95.65	75.65	26.24
Horizontal	Peak	14622.0000	50.03 **	95.65	75.65	25.63
Vertical	Peak	17059.0000	50.84 **	95.65	75.65	24.82
Horizontal	Peak	17059.0000	50.41 **	95.65	75.65	25.25
Vertical	Peak	19496.0000	40.38 **	-	74.00	33.62
Horizontal	Peak	19496.0000	41.61 **	-	74.00	32.39
Vertical	Peak	21933.0000	40.77 **	95.65	75.65	34.89
Horizontal	Peak	21933.0000	39.52 **	95.65	75.65	36.13
Vertical	Peak	24370.0000	40.33 **	95.65	75.65	35.32
Horizontal	Peak	24370.0000	42.13 **	95.65	75.65	33.53

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Mon, 23 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

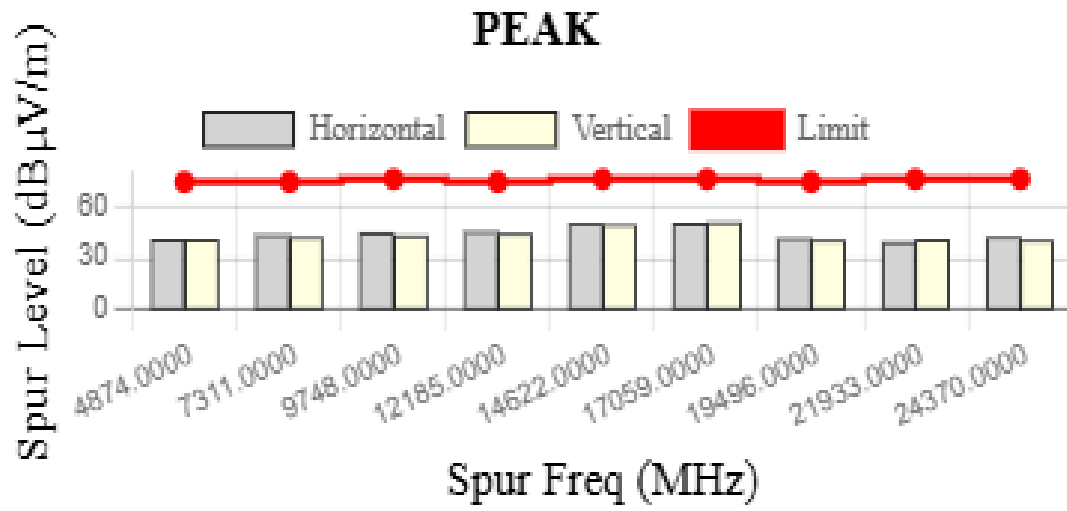
Remarks:

** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



Motorola Solutions

SAC TX Radiated Emission : 1490N00-EMC-00037

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	Wifi 2.4 GHz 802.11b	Channel SP/Bandwidth (kHz) :	20000.0000
Test Frequency (MHz) :	2462.0000	Softpot Power :	15.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBµV/m)	Carrier Power (dBµV/m)	Limit (dBµV/m)	Margin (dB)
Vertical	Peak	4924.0000	39.91 **	-	74.00	34.09
Horizontal	Peak	4924.0000	40.49 **	-	74.00	33.51
Vertical	Peak	7386.0000	42.53 **	-	74.00	31.47
Horizontal	Peak	7386.0000	43.20 **	-	74.00	30.80
Vertical	Peak	9848.0000	43.91 **	95.65	75.65	31.75
Horizontal	Peak	9848.0000	43.17 **	95.65	75.65	32.49
Vertical	Peak	12310.0000	45.61 **	-	74.00	28.39
Horizontal	Peak	12310.0000	47.18 **	-	74.00	26.82
Vertical	Peak	14772.0000	50.46 **	95.65	75.65	25.19
Horizontal	Peak	14772.0000	51.10 **	95.65	75.65	24.56
Vertical	Peak	17234.0000	50.74 **	95.65	75.65	24.91
Horizontal	Peak	17234.0000	49.86 **	95.65	75.65	25.79
Vertical	Peak	19696.0000	40.02 **	-	74.00	33.98
Horizontal	Peak	19696.0000	39.36 **	-	74.00	34.64
Vertical	Peak	22158.0000	40.71 **	-	74.00	33.29
Horizontal	Peak	22158.0000	38.80 **	-	74.00	35.20
Vertical	Peak	24620.0000	40.42 **	95.65	75.65	35.23
Horizontal	Peak	24620.0000	41.24 **	95.65	75.65	34.41

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Mon, 23 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

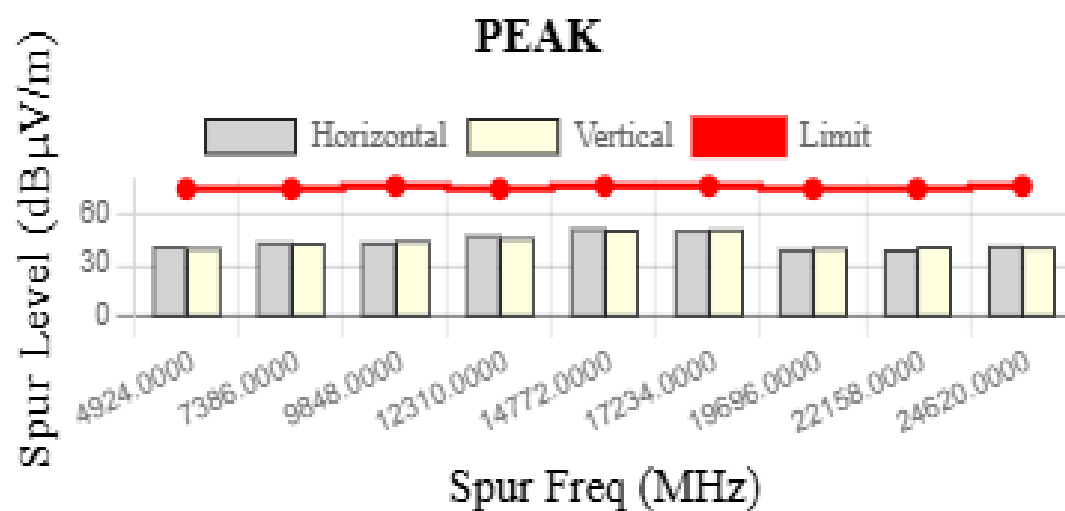
Remarks:

** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



SAC TX Radiated Emission : 1490N00-EMC-00037

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	Wifi 2.4 GHz 802.11g	Channel SP/Bandwidth (kHz) :	20000.0000
Test Frequency (MHz) :	2412.0000	Softpot Power :	15.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Peak	4824.0000	39.58 **	-	74.00	34.42
Horizontal	Peak	4824.0000	39.59 **	-	74.00	34.41
Vertical	Peak	7236.0000	43.80 **	95.65	75.65	31.86
Horizontal	Peak	7236.0000	42.52 **	95.65	75.65	33.14
Vertical	Peak	9648.0000	43.99 **	95.65	75.65	31.66
Horizontal	Peak	9648.0000	45.16 **	95.65	75.65	30.49
Vertical	Peak	12060.0000	47.27 **	-	74.00	26.73
Horizontal	Peak	12060.0000	46.01 **	-	74.00	27.99
Vertical	Peak	14472.0000	47.31 **	-	74.00	26.69
Horizontal	Peak	14472.0000	47.68 **	-	74.00	26.32
Vertical	Peak	16884.0000	49.23 **	95.65	75.65	26.43
Horizontal	Peak	16884.0000	49.18 **	95.65	75.65	26.47
Vertical	Peak	19296.0000	39.84 **	-	74.00	34.16
Horizontal	Peak	19296.0000	39.29 **	-	74.00	34.71
Vertical	Peak	21708.0000	39.06 **	95.65	75.65	36.60
Horizontal	Peak	21708.0000	40.58 **	95.65	75.65	35.07
Vertical	Peak	24120.0000	41.27 **	95.65	75.65	34.38
Horizontal	Peak	24120.0000	40.77 **	95.65	75.65	34.89

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Mon, 23 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

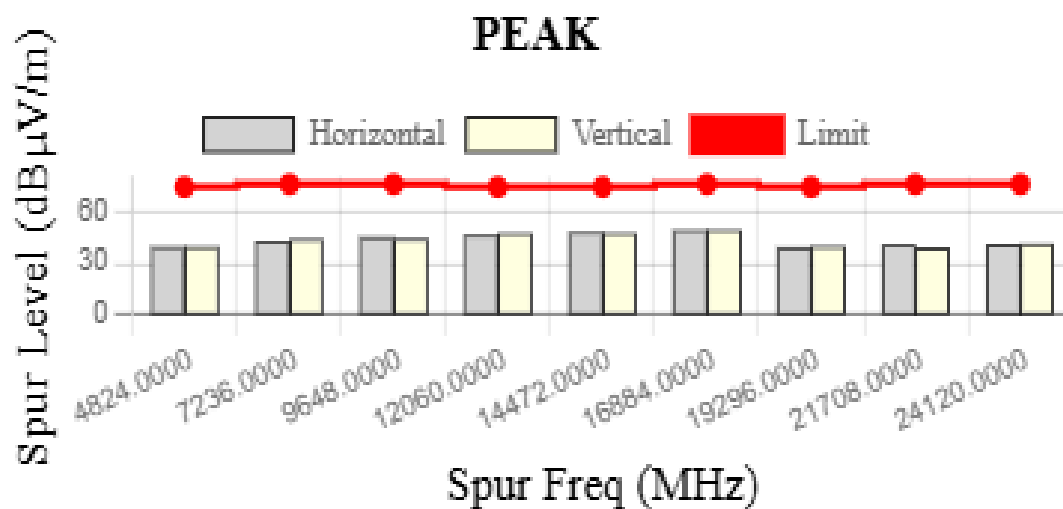
Remarks:

** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



Motorola Solutions

SAC TX Radiated Emission : 1490N00-EMC-00037

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	Wifi 2.4 GHz 802.11g	Channel SP/Bandwidth (kHz) :	20000.0000
Test Frequency (MHz) :	2437.0000	Softpot Power :	15.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Peak	4874.0000	39.63 **	-	74.00	34.37
Horizontal	Peak	4874.0000	39.75 **	-	74.00	34.25
Vertical	Peak	7311.0000	42.60 **	-	74.00	31.40
Horizontal	Peak	7311.0000	42.96 **	-	74.00	31.04
Vertical	Peak	9748.0000	43.80 **	95.65	75.65	31.86
Horizontal	Peak	9748.0000	44.80 **	95.65	75.65	30.86
Vertical	Peak	12185.0000	45.46 **	-	74.00	28.54
Horizontal	Peak	12185.0000	45.55 **	-	74.00	28.45
Vertical	Peak	14622.0000	50.70 **	95.65	75.65	24.95
Horizontal	Peak	14622.0000	49.75 **	95.65	75.65	25.91
Vertical	Peak	17059.0000	49.92 **	95.65	75.65	25.73
Horizontal	Peak	17059.0000	51.77 **	95.65	75.65	23.88
Vertical	Peak	19496.0000	40.89 **	-	74.00	33.11
Horizontal	Peak	19496.0000	39.75 **	-	74.00	34.25
Vertical	Peak	21933.0000	39.95 **	95.65	75.65	35.71
Horizontal	Peak	21933.0000	40.22 **	95.65	75.65	35.43
Vertical	Peak	24370.0000	40.32 **	95.65	75.65	35.34
Horizontal	Peak	24370.0000	40.76 **	95.65	75.65	34.89

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Mon, 23 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

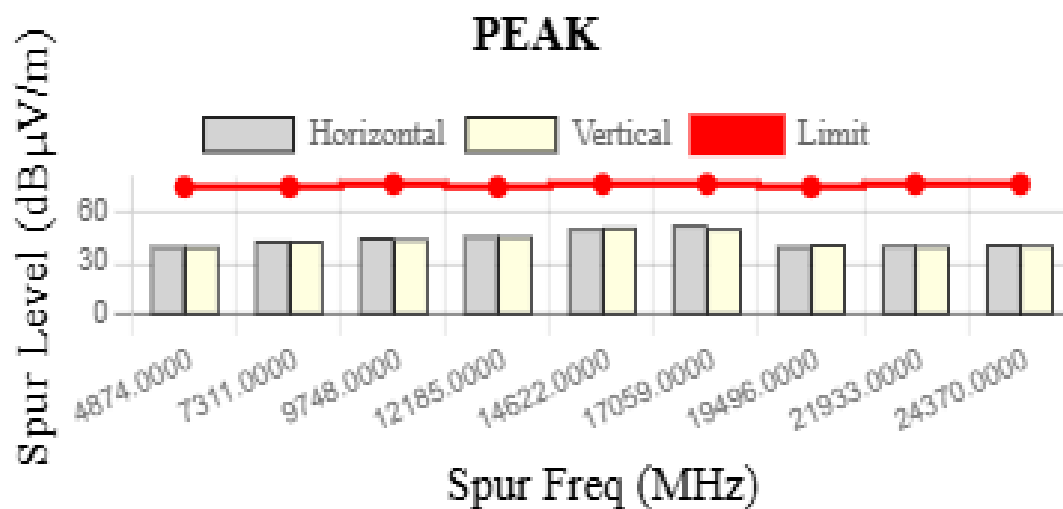
Remarks:

** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



Motorola Solutions

SAC TX Radiated Emission : 1490N00-EMC-00037

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	Wifi 2.4 GHz 802.11g	Channel SP/Bandwidth (kHz) :	20000.0000
Test Frequency (MHz) :	2462.0000	Softpot Power :	15.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Peak	4924.0000	39.41 **	-	74.00	34.59
Horizontal	Peak	4924.0000	39.10 **	-	74.00	34.90
Vertical	Peak	7386.0000	42.49 **	-	74.00	31.51
Horizontal	Peak	7386.0000	42.85 **	-	74.00	31.15
Vertical	Peak	9848.0000	44.09 **	95.65	75.65	31.56
Horizontal	Peak	9848.0000	43.47 **	95.65	75.65	32.18
Vertical	Peak	12310.0000	45.63 **	-	74.00	28.37
Horizontal	Peak	12310.0000	46.02 **	-	74.00	27.98
Vertical	Peak	14772.0000	49.60 **	95.65	75.65	26.06
Horizontal	Peak	14772.0000	49.38 **	95.65	75.65	26.27
Vertical	Peak	17234.0000	49.68 **	95.65	75.65	25.97
Horizontal	Peak	17234.0000	50.16 **	95.65	75.65	25.49
Vertical	Peak	19696.0000	39.51 **	-	74.00	34.49
Horizontal	Peak	19696.0000	40.24 **	-	74.00	33.76
Vertical	Peak	22158.0000	39.53 **	-	74.00	34.47
Horizontal	Peak	22158.0000	39.05 **	-	74.00	34.95
Vertical	Peak	24620.0000	41.43 **	95.65	75.65	34.23
Horizontal	Peak	24620.0000	41.46 **	95.65	75.65	34.19

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Mon, 23 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

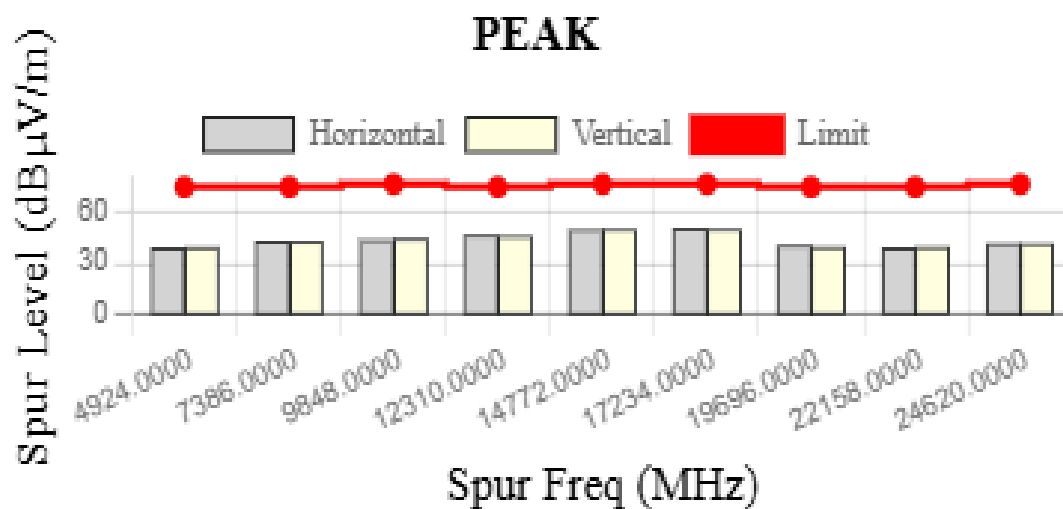
Remarks:

** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



SAC TX Radiated Emission : 1490N00-EMC-00037

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	Wifi 2.4 GHz 802.11n	Channel SP/Bandwidth (kHz) :	20000.0000
Test Frequency (MHz) :	2412.0000	Softpot Power :	15.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Peak	4824.0000	39.31 **	-	74.00	34.69
Horizontal	Peak	4824.0000	40.01 **	-	74.00	33.99
Vertical	Peak	7236.0000	42.38 **	95.65	75.65	33.28
Horizontal	Peak	7236.0000	41.52 **	95.65	75.65	34.14
Vertical	Peak	9648.0000	42.91 **	95.65	75.65	32.74
Horizontal	Peak	9648.0000	46.19 **	95.65	75.65	29.47
Vertical	Peak	12060.0000	46.45 **	-	74.00	27.55
Horizontal	Peak	12060.0000	45.63 **	-	74.00	28.37
Vertical	Peak	14472.0000	48.04 **	-	74.00	25.96
Horizontal	Peak	14472.0000	47.98 **	-	74.00	26.02
Vertical	Peak	16884.0000	49.54 **	95.65	75.65	26.11
Horizontal	Peak	16884.0000	50.98 **	95.65	75.65	24.67
Vertical	Peak	19296.0000	40.43 **	-	74.00	33.57
Horizontal	Peak	19296.0000	40.23 **	-	74.00	33.77
Vertical	Peak	21708.0000	39.87 **	95.65	75.65	35.78
Horizontal	Peak	21708.0000	40.21 **	95.65	75.65	35.44
Vertical	Peak	24120.0000	41.31 **	95.65	75.65	34.34
Horizontal	Peak	24120.0000	40.35 **	95.65	75.65	35.30

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Mon, 23 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

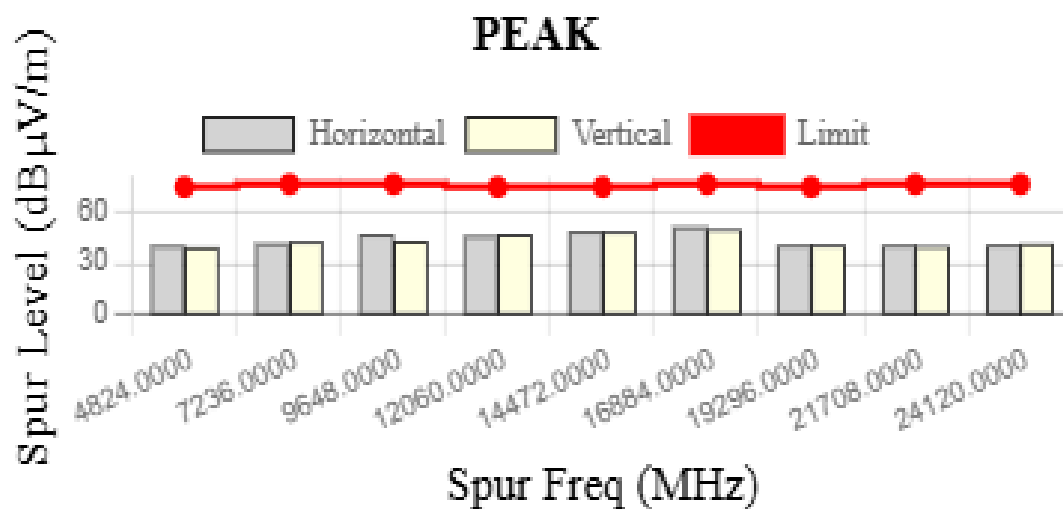
Remarks:

** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



Motorola Solutions

SAC TX Radiated Emission : 1490N00-EMC-00037

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	Wifi 2.4 GHz 802.11n	Channel SP/Bandwidth (kHz) :	20000.0000
Test Frequency (MHz) :	2437.0000	Softpot Power :	15.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Peak	4874.0000	40.40 **	-	74.00	33.60
Horizontal	Peak	4874.0000	40.09 **	-	74.00	33.91
Vertical	Peak	7311.0000	42.18 **	-	74.00	31.82
Horizontal	Peak	7311.0000	43.15 **	-	74.00	30.85
Vertical	Peak	9748.0000	44.52 **	95.65	75.65	31.14
Horizontal	Peak	9748.0000	45.70 **	95.65	75.65	29.95
Vertical	Peak	12185.0000	45.90 **	-	74.00	28.10
Horizontal	Peak	12185.0000	45.03 **	-	74.00	28.97
Vertical	Peak	14622.0000	50.01 **	95.65	75.65	25.64
Horizontal	Peak	14622.0000	49.62 **	95.65	75.65	26.03
Vertical	Peak	17059.0000	49.71 **	95.65	75.65	25.95
Horizontal	Peak	17059.0000	49.10 **	95.65	75.65	26.55
Vertical	Peak	19496.0000	39.88 **	-	74.00	34.12
Horizontal	Peak	19496.0000	39.23 **	-	74.00	34.77
Vertical	Peak	21933.0000	40.62 **	95.65	75.65	35.04
Horizontal	Peak	21933.0000	40.90 **	95.65	75.65	34.75
Vertical	Peak	24370.0000	40.35 **	95.65	75.65	35.31
Horizontal	Peak	24370.0000	41.19 **	95.65	75.65	34.46

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Mon, 23 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

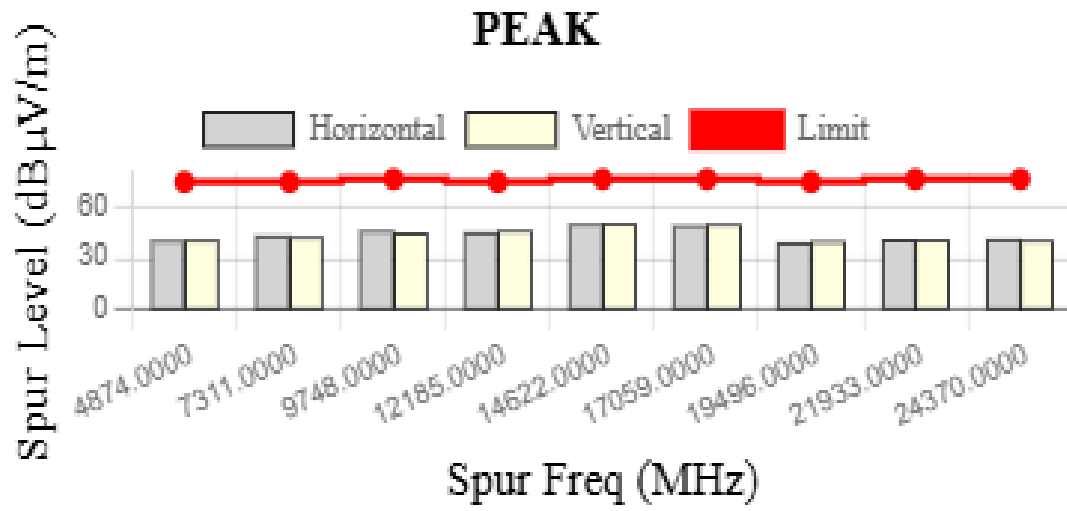
Remarks:

** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



Motorola Solutions

SAC TX Radiated Emission : 1490N00-EMC-00037

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	Wifi 2.4 GHz 802.11n	Channel SP/Bandwidth (kHz) :	20000.0000
Test Frequency (MHz) :	2462.0000	Softpot Power :	15.00
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Peak	4924.0000	41.25 **	-	74.00	32.75
Horizontal	Peak	4924.0000	40.61 **	-	74.00	33.39
Vertical	Peak	7386.0000	43.32 **	-	74.00	30.68
Horizontal	Peak	7386.0000	42.81 **	-	74.00	31.19
Vertical	Peak	9848.0000	43.52 **	95.65	75.65	32.14
Horizontal	Peak	9848.0000	43.98 **	95.65	75.65	31.67
Vertical	Peak	12310.0000	46.79 **	-	74.00	27.21
Horizontal	Peak	12310.0000	46.50 **	-	74.00	27.50
Vertical	Peak	14772.0000	48.99 **	95.65	75.65	26.66
Horizontal	Peak	14772.0000	49.41 **	95.65	75.65	26.24
Vertical	Peak	17234.0000	50.91 **	95.65	75.65	24.74
Horizontal	Peak	17234.0000	50.11 **	95.65	75.65	25.55
Vertical	Peak	19696.0000	39.50 **	-	74.00	34.50
Horizontal	Peak	19696.0000	40.33 **	-	74.00	33.67
Vertical	Peak	22158.0000	39.07 **	-	74.00	34.93
Horizontal	Peak	22158.0000	39.36 **	-	74.00	34.64
Vertical	Peak	24620.0000	41.71 **	95.65	75.65	33.94
Horizontal	Peak	24620.0000	41.37 **	95.65	75.65	34.28

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Mon, 23 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

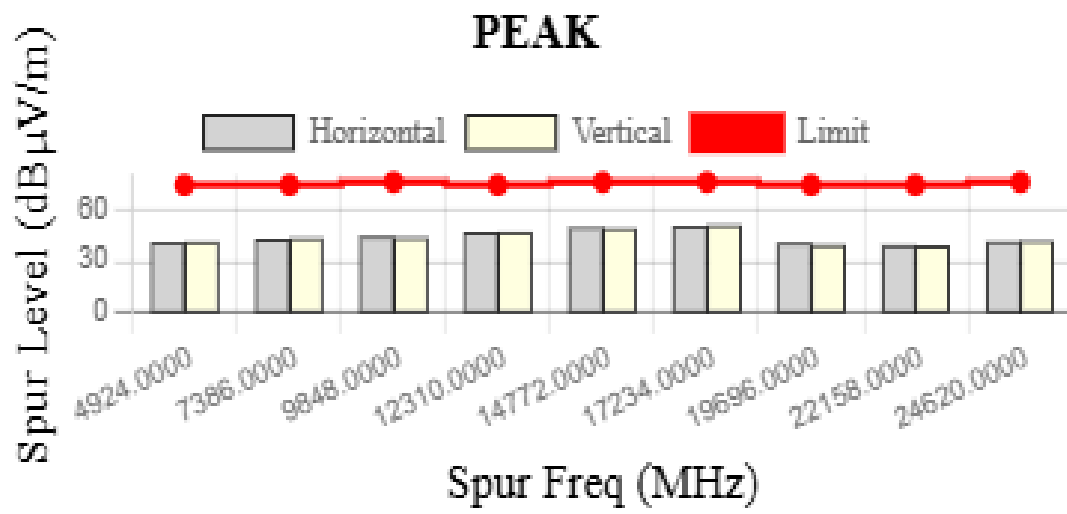
Remarks:

** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



SAC TX Radiated Emission : 1490N00-EMC-00037

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	Wifi 2.4 GHz 802.11n	Channel SP/Bandwidth (kHz) :	40000.0000
Test Frequency (MHz) :	2422.0000	Softpot Power :	14.50
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Peak	4844.0000	39.18 **	-	74.00	34.82
Horizontal	Peak	4844.0000	39.17 **	-	74.00	34.83
Vertical	Peak	7266.0000	42.75 **	-	74.00	31.25
Horizontal	Peak	7266.0000	44.09 **	-	74.00	29.91
Vertical	Peak	9688.0000	44.52 **	95.65	75.65	31.13
Horizontal	Peak	9688.0000	43.99 **	95.65	75.65	31.66
Vertical	Peak	12110.0000	46.87 **	-	74.00	27.13
Horizontal	Peak	12110.0000	46.68 **	-	74.00	27.32
Vertical	Peak	14532.0000	48.85 **	95.65	75.65	26.80
Horizontal	Peak	14532.0000	48.60 **	95.65	75.65	27.06
Vertical	Peak	16954.0000	48.63 **	95.65	75.65	27.03
Horizontal	Peak	16954.0000	48.86 **	95.65	75.65	26.79
Vertical	Peak	19376.0000	40.19 **	-	74.00	33.81
Horizontal	Peak	19376.0000	39.34 **	-	74.00	34.66
Vertical	Peak	21798.0000	42.37 **	95.65	75.65	33.28
Horizontal	Peak	21798.0000	41.26 **	95.65	75.65	34.39
Vertical	Peak	24220.0000	40.90 **	95.65	75.65	34.75
Horizontal	Peak	24220.0000	40.76 **	95.65	75.65	34.90

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Mon, 23 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

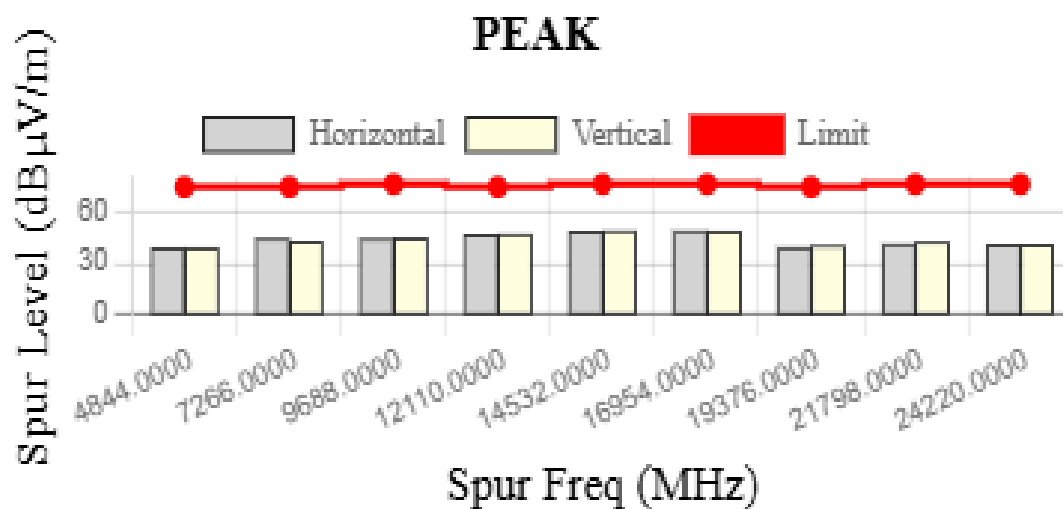
Remarks:

** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



Motorola Solutions

SAC TX Radiated Emission : 1490N00-EMC-00037

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	Wifi 2.4 GHz 802.11n	Channel SP/Bandwidth (kHz) :	40000.0000
Test Frequency (MHz) :	2437.0000	Softpot Power :	14.50
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Peak	4874.0000	40.83 **	-	74.00	33.17
Horizontal	Peak	4874.0000	40.69 **	-	74.00	33.31
Vertical	Peak	7311.0000	42.90 **	-	74.00	31.10
Horizontal	Peak	7311.0000	43.17 **	-	74.00	30.83
Vertical	Peak	9748.0000	43.99 **	95.65	75.65	31.67
Horizontal	Peak	9748.0000	43.98 **	95.65	75.65	31.67
Vertical	Peak	12185.0000	45.70 **	-	74.00	28.30
Horizontal	Peak	12185.0000	45.12 **	-	74.00	28.88
Vertical	Peak	14622.0000	51.03 **	95.65	75.65	24.63
Horizontal	Peak	14622.0000	50.57 **	95.65	75.65	25.09
Vertical	Peak	17059.0000	49.36 **	95.65	75.65	26.30
Horizontal	Peak	17059.0000	49.71 **	95.65	75.65	25.94
Vertical	Peak	19496.0000	39.56 **	-	74.00	34.44
Horizontal	Peak	19496.0000	39.80 **	-	74.00	34.20
Vertical	Peak	21933.0000	40.20 **	95.65	75.65	35.45
Horizontal	Peak	21933.0000	40.07 **	95.65	75.65	35.59
Vertical	Peak	24370.0000	41.30 **	95.65	75.65	34.36
Horizontal	Peak	24370.0000	40.72 **	95.65	75.65	34.93

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Mon, 23 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

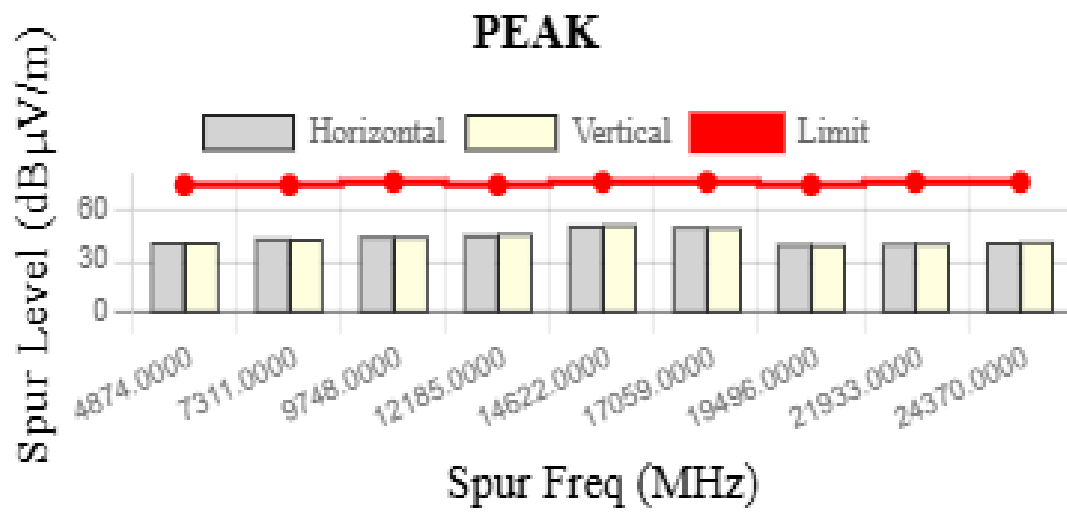
Remarks:

** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



Motorola Solutions

SAC TX Radiated Emission : 1490N00-EMC-00037

FCC ID :	AZ489FT7187	IC :	109U-89FT7187
Model No :	HK2300A	Serial No :	64222BY0124
Battery :	PMNN4578A	Charger :	-
Accessory :	AN000508A01		
Test Mode :	Wifi 2.4 GHz 802.11n	Channel SP/Bandwidth (kHz) :	40000.0000
Test Frequency (MHz) :	2452.0000	Softpot Power :	14.50
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	Peak	4904.0000	40.89 **	-	74.00	33.11
Horizontal	Peak	4904.0000	40.12 **	-	74.00	33.88
Vertical	Peak	7356.0000	42.77 **	-	74.00	31.23
Horizontal	Peak	7356.0000	41.81 **	-	74.00	32.19
Vertical	Peak	9808.0000	44.74 **	95.65	75.65	30.92
Horizontal	Peak	9808.0000	43.06 **	95.65	75.65	32.60
Vertical	Peak	12260.0000	46.00 **	-	74.00	28.00
Horizontal	Peak	12260.0000	47.56 **	-	74.00	26.44
Vertical	Peak	14712.0000	49.23 **	95.65	75.65	26.42
Horizontal	Peak	14712.0000	48.05 **	95.65	75.65	27.61
Vertical	Peak	17164.0000	49.91 **	95.65	75.65	25.74
Horizontal	Peak	17164.0000	50.88 **	95.65	75.65	24.77
Vertical	Peak	19616.0000	39.53 **	-	74.00	34.47
Horizontal	Peak	19616.0000	38.69 **	-	74.00	35.31
Vertical	Peak	22068.0000	40.99 **	-	74.00	33.01
Horizontal	Peak	22068.0000	39.42 **	-	74.00	34.58
Vertical	Peak	24520.0000	41.86 **	95.65	75.65	33.79
Horizontal	Peak	24520.0000	42.50 **	95.65	75.65	33.15

Temperature (°C) :	23.5	Humidity (%) :	68.9
Test Performed by :	Nazrin & Fuad	Test Date :	Mon, 23 Feb, 2026
System MU :	6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)		

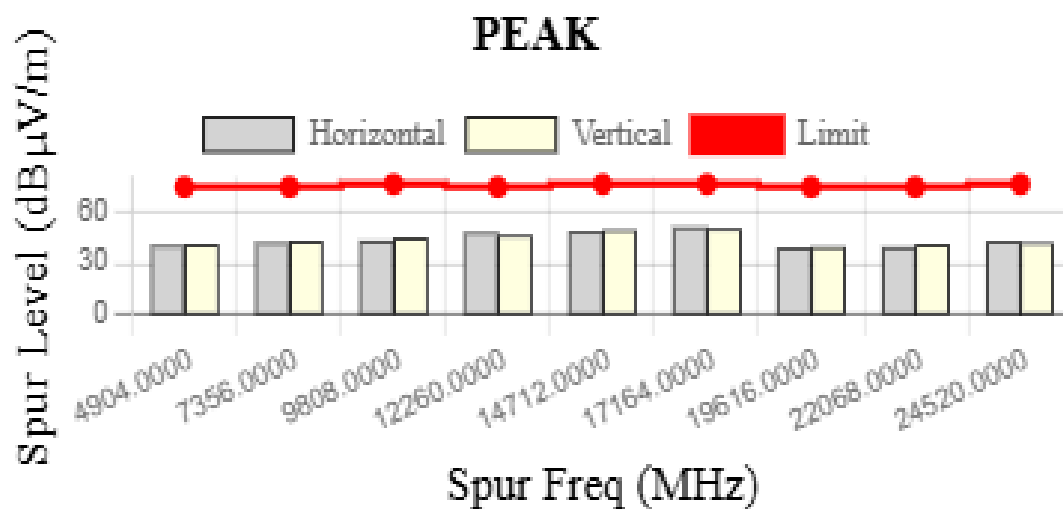
Remarks:

** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



SAC TX Radiated Emission : 1490N00-EMC-00044

FCC ID : AZ489FT7187 IC : 109U-89FT7187
Model No : HK2300A Serial No : 64222BY0124,
64222BY0188,
64222BY0191
Battery : PMNN4578A Charger : PMLN8569A
(PMLN8567A-C2,
3004209T03)
Accessory : AN000508A01
Test Mode : Wifi 2.4 GHz 802.11g Channel SP/Bandwidth (kHz) : 20000.0000
Test Frequency (MHz) : 2437.0000 Softpot Power : 15.00
Plane : Y-Plane Band : -
Test Standard : ANSI C63.10-2020+Cor. 1- Voltage (V) : 120.00
2023+C63.10a-2024 + Errata
to C63.10a-2024

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBμV/m)	Carrier Power (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Horizontal	Peak	31.7191	28.92 *	95.65	75.65	46.74
Vertical	Peak	32.2875	32.48 *	95.65	75.65	43.18
Vertical	Peak	55.3744	24.15 *	95.65	75.65	51.50
Horizontal	Peak	56.1656	15.81 *	95.65	75.65	59.85
Vertical	Quasi-Peak	111.9854	12.77 *	-	43.50	30.73
Horizontal	Quasi-Peak	112.3340	11.07 *	-	43.50	32.43
Horizontal	Peak	155.5539	27.74 *	95.65	75.65	47.91
Vertical	Peak	155.9475	24.04 *	95.65	75.65	51.61
Vertical	Peak	160.8944	26.20 *	95.65	75.65	49.45
Horizontal	Peak	160.9363	28.94 *	95.65	75.65	46.71
Vertical	Quasi-Peak	258.2720	21.48 *	-	46.00	24.52
Horizontal	Quasi-Peak	258.4598	16.14 *	-	46.00	29.86
Horizontal	Peak	870.9373	27.99 *	95.65	75.65	47.66
Vertical	Peak	871.3100	27.95 *	95.65	75.65	47.71

Temperature (°C) : 23.4 Humidity (%) : 68.7
Test Performed by : Nazrin & Fuad Test Date : Sun, 8 Mar, 2026
System MU : 6.00 dB (30MHz-1000MHz); 5.14 dB (1000MHz-18000MHz); 5.36 dB (18000MHz-40000MHz)

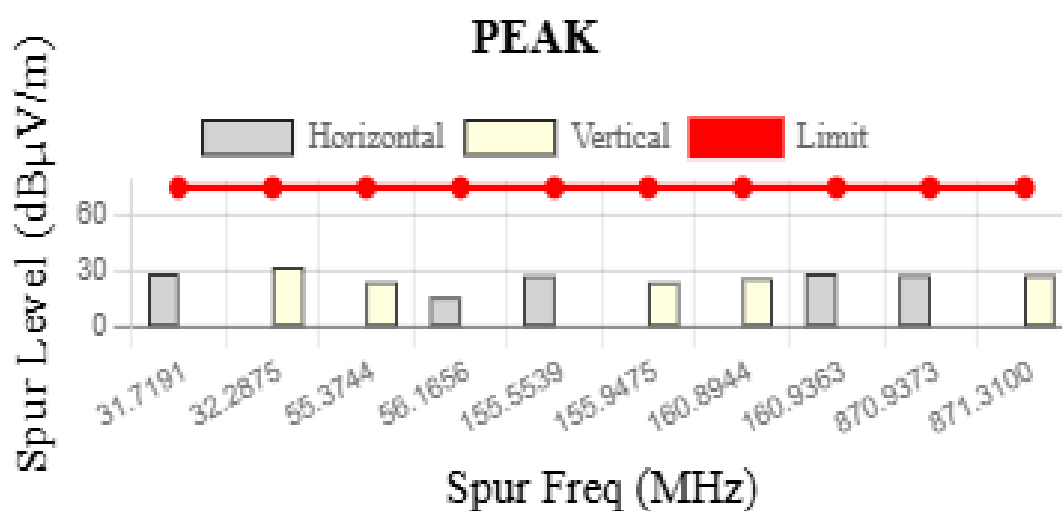
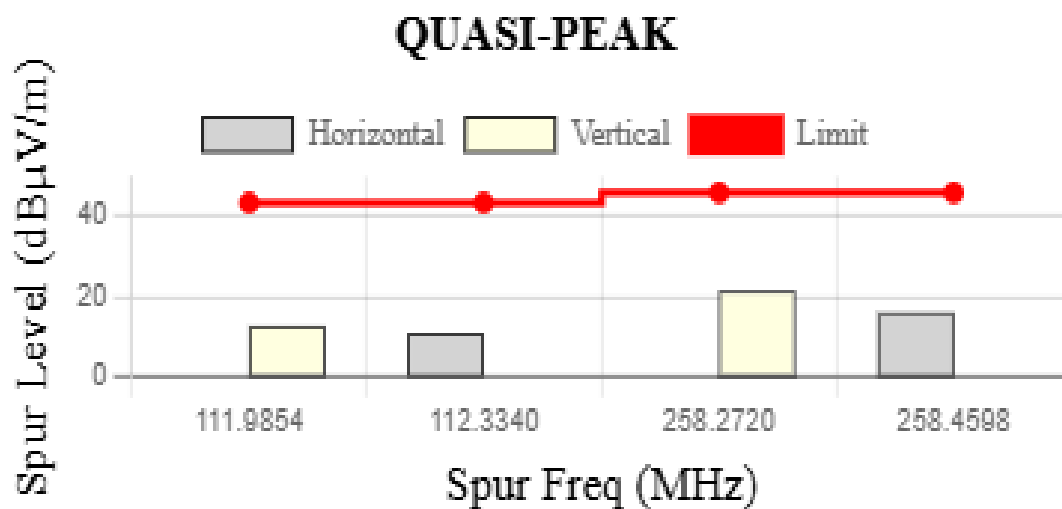
Remarks:

** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.

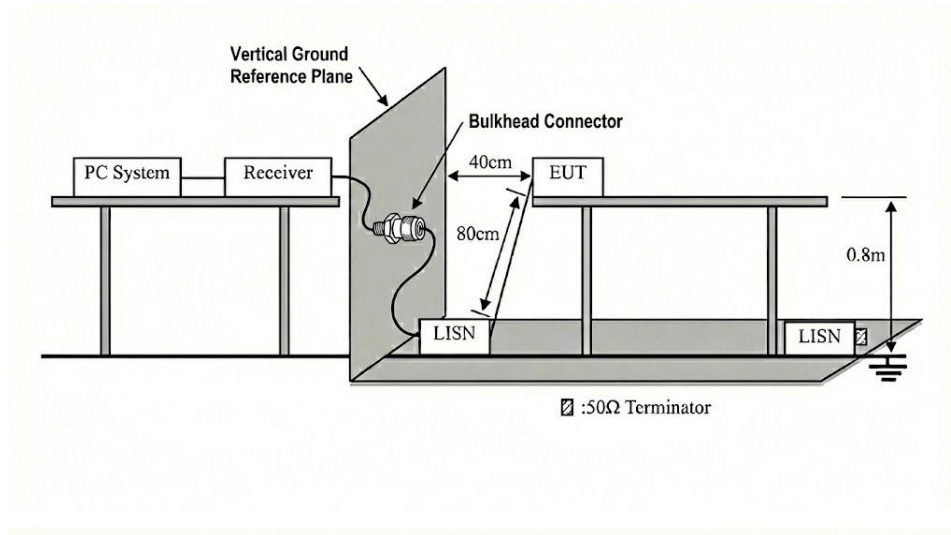
NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



6.8. AC Powerline Conducted Emission

6.8.1. Test Setup



- 1) Tests were conducted for both Receive and Transmit Mode of the EUT.
- 2) The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN) and connected to test receiver. All other EUT support units were connected to the power mains through another LISN terminated with 50 ohm loads.
- 3) Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- 4) The frequency range from 150 kHz to 30MHz was measured.

6.8.2. Test Limits:

For AC Power Line Conducted Test Limit can be Class A or B depends on product classification.

**Limits for conducted disturbance at the mains ports
of class A ITE**

Frequency range MHz	Limits dB(μ V)	
	Quasi-peak	Average
0,15 to 0,50	79	66
0,50 to 30	73	60
NOTE The lower limit shall apply at the transition frequency.		

Table 1: Limits for Conducted Disturbance at the Mains Ports of Class A ITE.

**Limits for conducted disturbance at the mains ports
 of class B ITE**

Frequency range MHz	Limits dB(μ V)	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50

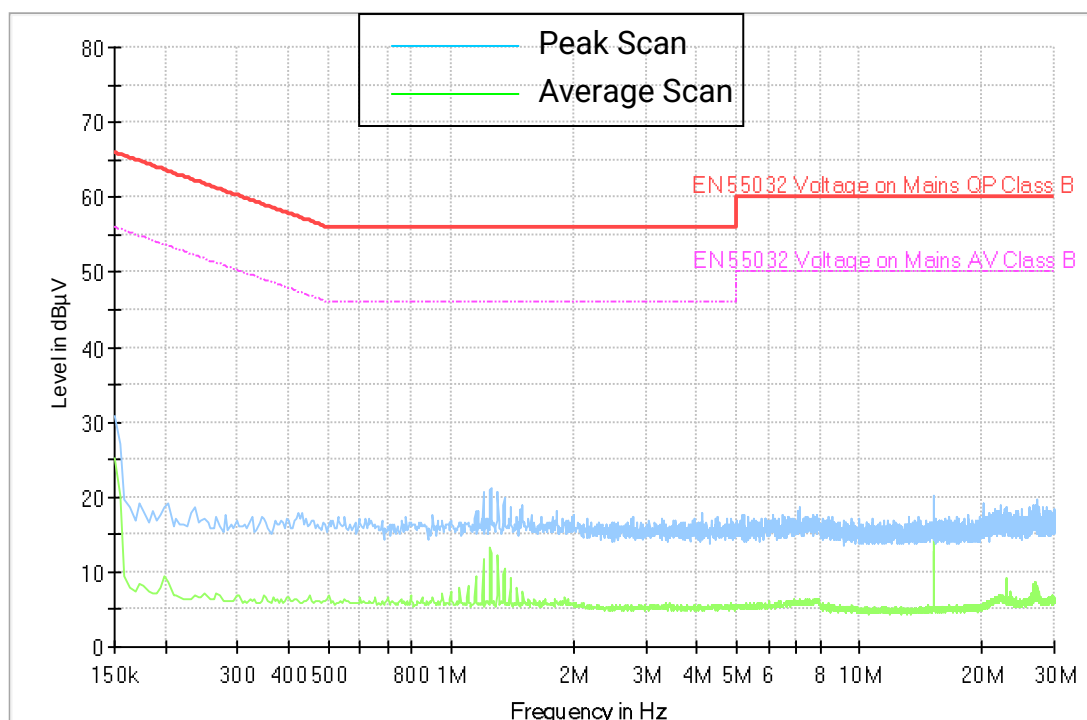
NOTE 1 The lower limit shall apply at the transition frequencies.
 NOTE 2 The limit decreases linearly with the logarithm of the frequency in the range 0,15 MHz to 0,50 MHz.

Table 2: Limits for Conducted Disturbance at the Mains Ports of Class B ITE

6.8.3. Test Result

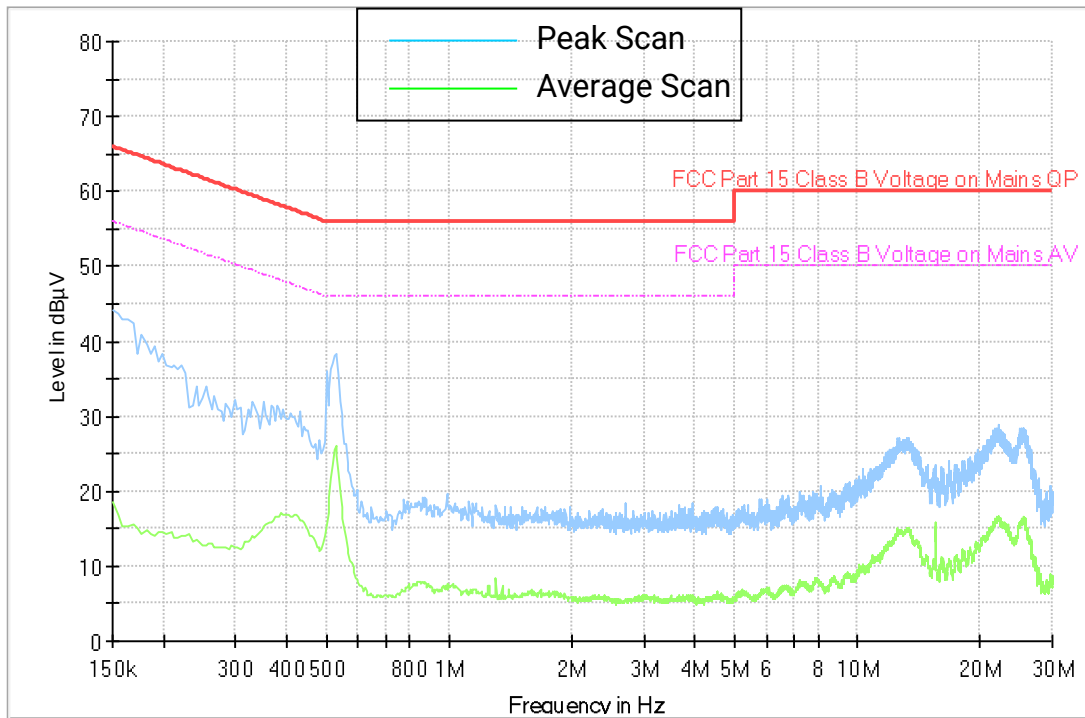
120VAC, 60Hz
 1) Ambient

Full Spectrum



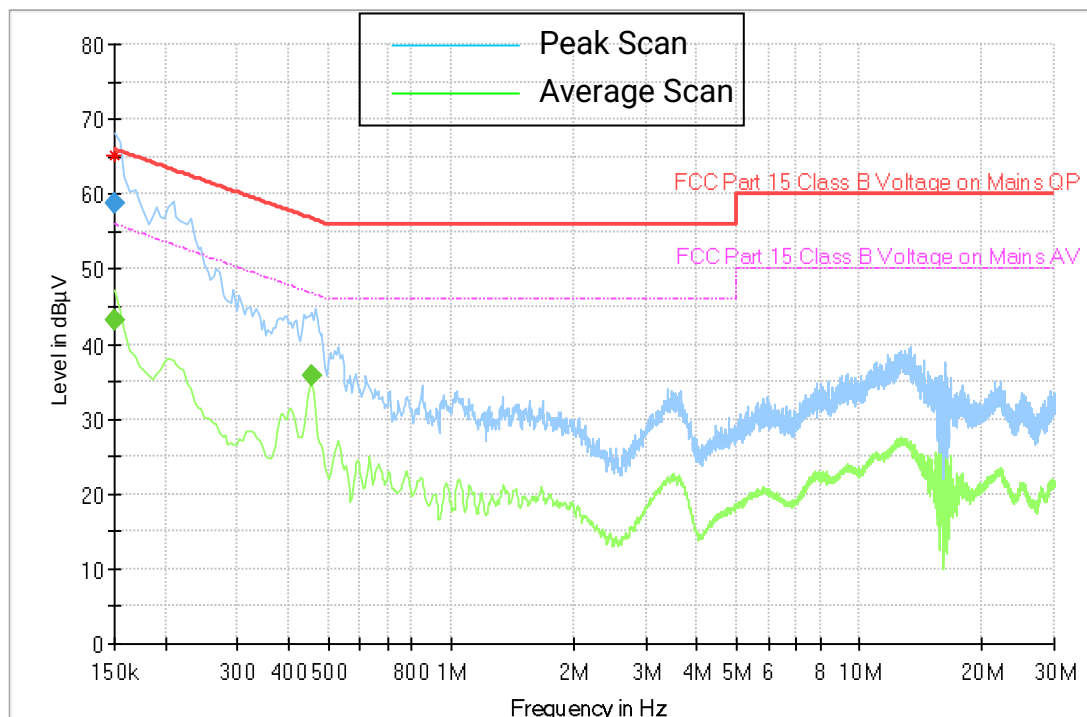
2) PSU Alone

Full Spectrum



3) Charger with Radio Standby

Full Spectrum

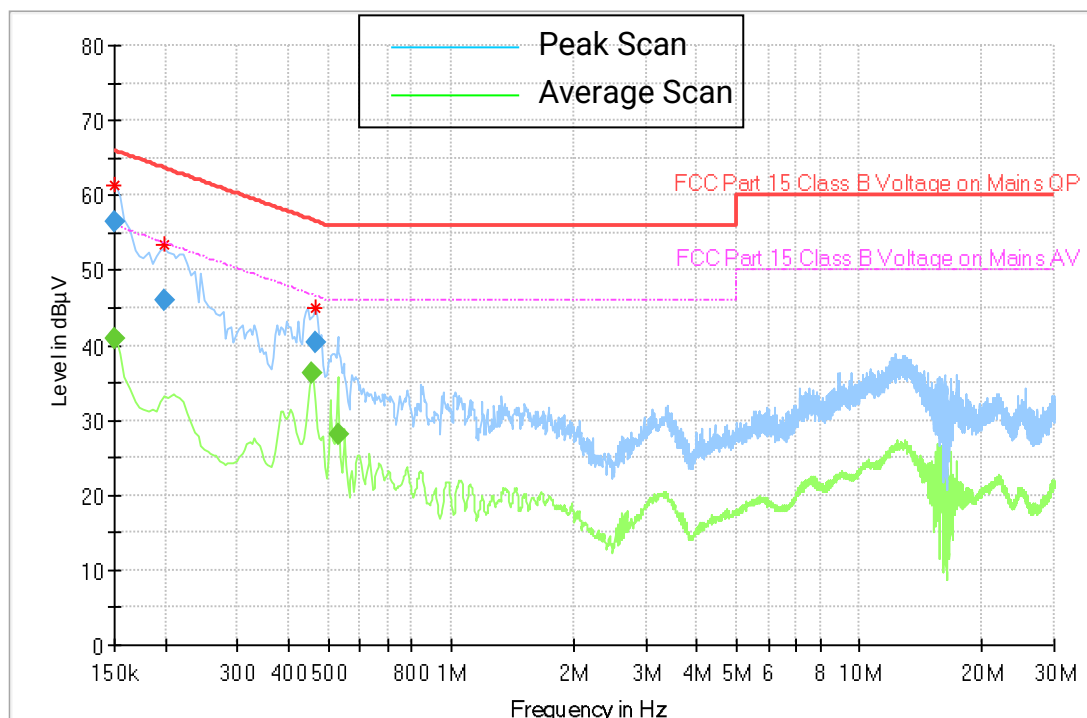


QuasiPeak and Average Measurement

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	43.14	56.00	12.86	L1	ON	10.5
0.150000	58.73	---	66.00	7.27	N	ON	10.5
0.456000	---	35.81	46.77	10.96	L1	ON	10.6

4) Charger with Radio Transmit (CH: 2437MHz, WiFi 2.4GHz, Mod:802.11 n40)

Full Spectrum



QuasiPeak and Average Measurement

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	40.85	56.00	15.15	N	ON	10.5
0.150000	56.59	---	66.00	9.41	N	ON	10.5
0.199500	46.04	---	63.63	17.59	N	ON	10.5
0.456000	---	36.26	46.77	10.50	L1	ON	10.6
0.465000	40.40	---	56.60	16.20	L1	ON	10.6
0.528000	---	28.17	46.00	17.83	L1	ON	10.6

END OF TEST REPORT